

Removal of the Exit 21 Off-Ramp on I-84 EB

State Project No. 0151-0340



Preliminary Design Meeting
October 25, 2023



Meeting Agenda

- **Project Team Introduction**
- **The New Mix: Overview & Breakout Projects**
- **Removal of Exit 21 Off-Ramp on I-84 Eastbound (EB) in Waterbury**
 - Project Need
- **Project Introduction**
 - Project Location
 - Proposed Design
- **Construction Cost / ROW**
- **Public Outreach / Next Steps**
- **Questions**

Project Leadership Team

Connecticut Department of Transportation

- Michael N. Calabrese, PE, Division Chief
- Nilesh Patel, PE, Principal Engineer
- Jonathan Dean, PE, Project Manager
- Joe Belrose, EIT, Project Engineer
- Zachary Guarino, ROW Coordinator

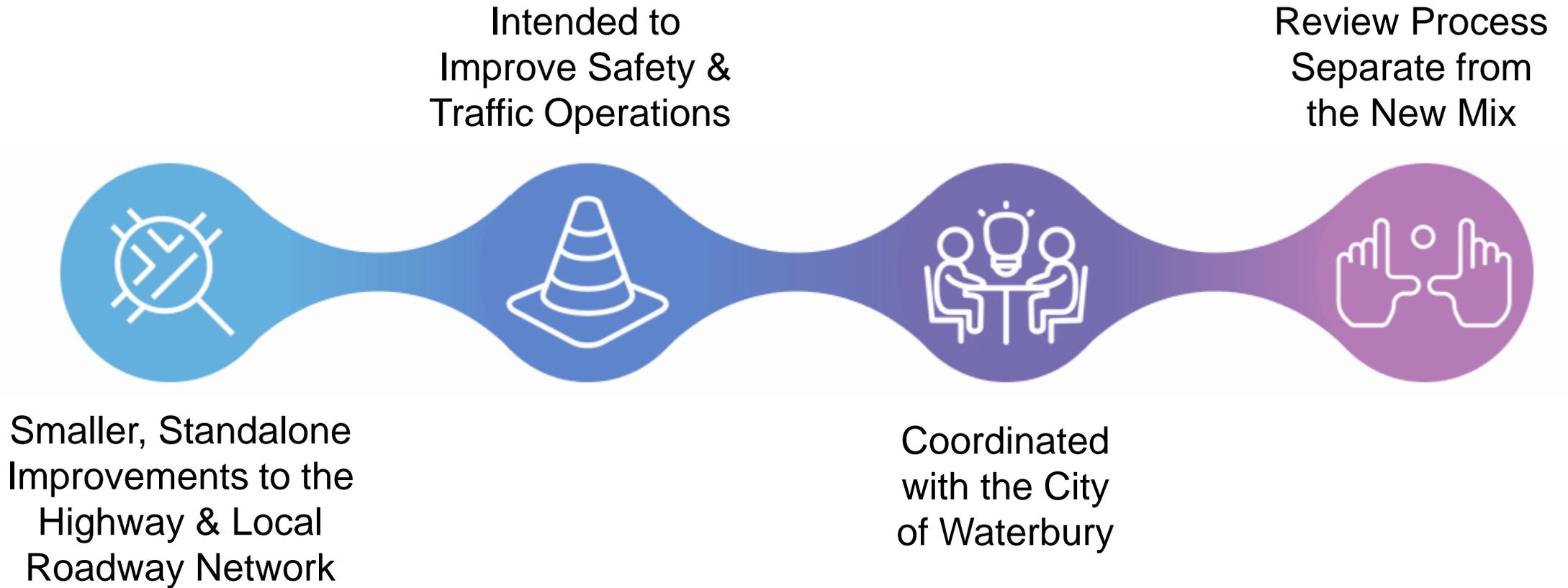
HNTB Corporation

- Rudy Franciamore, PE, Project Manager
- David Schweitzer, PE, Technical Advisor
- Samantha Scharpf, PE Project Engineer
- Patrick Etter, EIT Project Engineer
- David Giel, PE, PTOE Traffic Engineer

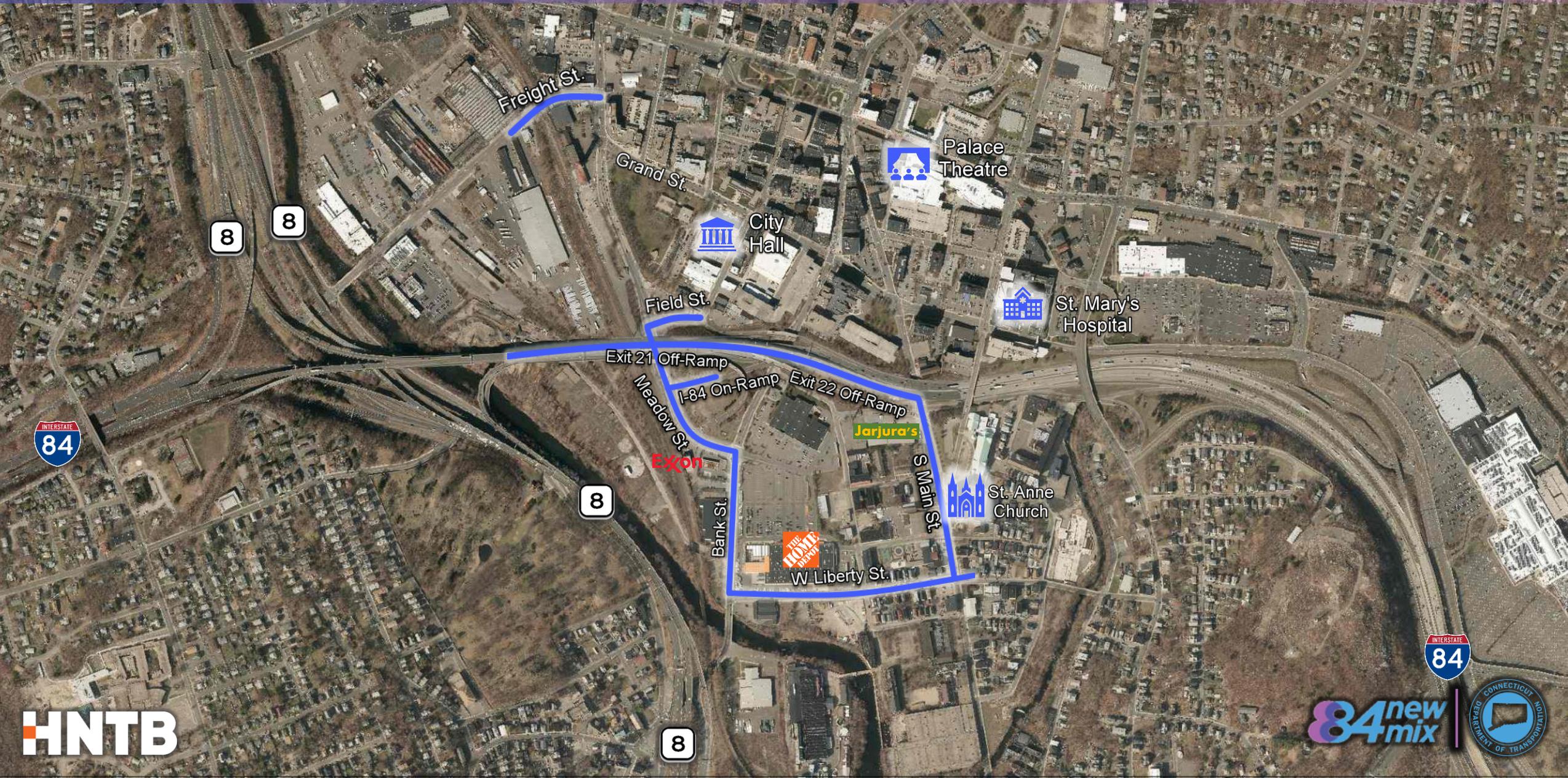
New Mix: Project Overview

- Long-term plan for the future of the Mixmaster
- Analyze rehabilitation and replacement options that:
 - Modernize
 - Improve safety & function of local roadway network & the interchange
 - Reduce congestion
 - Align with economic development & community plans
- Projects will occur over time

Early Action Projects



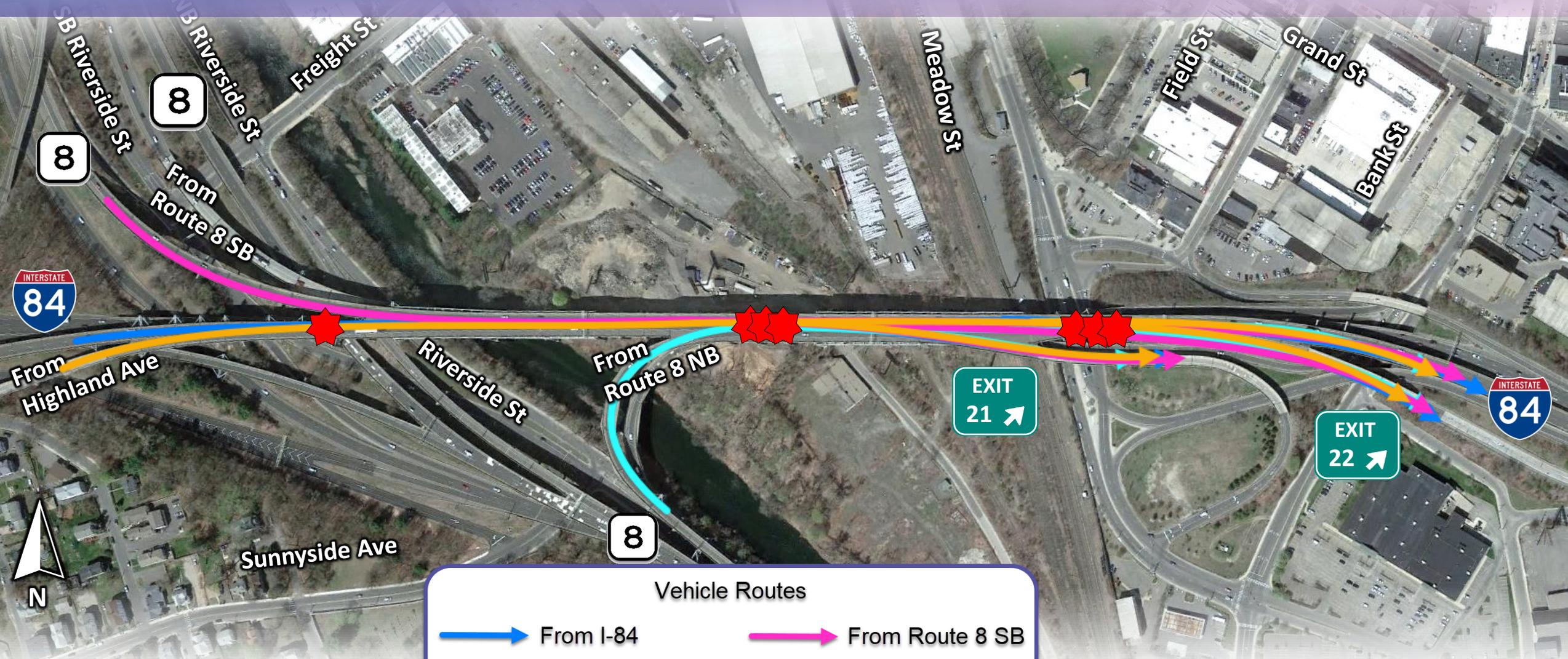
Location Map



An aerial photograph of a highway interchange, likely Exit 21 on I-84 EB, with a blue and purple color overlay. The image shows a multi-lane highway with an off-ramp that is the subject of the project. The text is centered over the image.

***Removal of the Exit 21 Off-Ramp on I-84 EB
Project Need***

Project Need: Current Issues

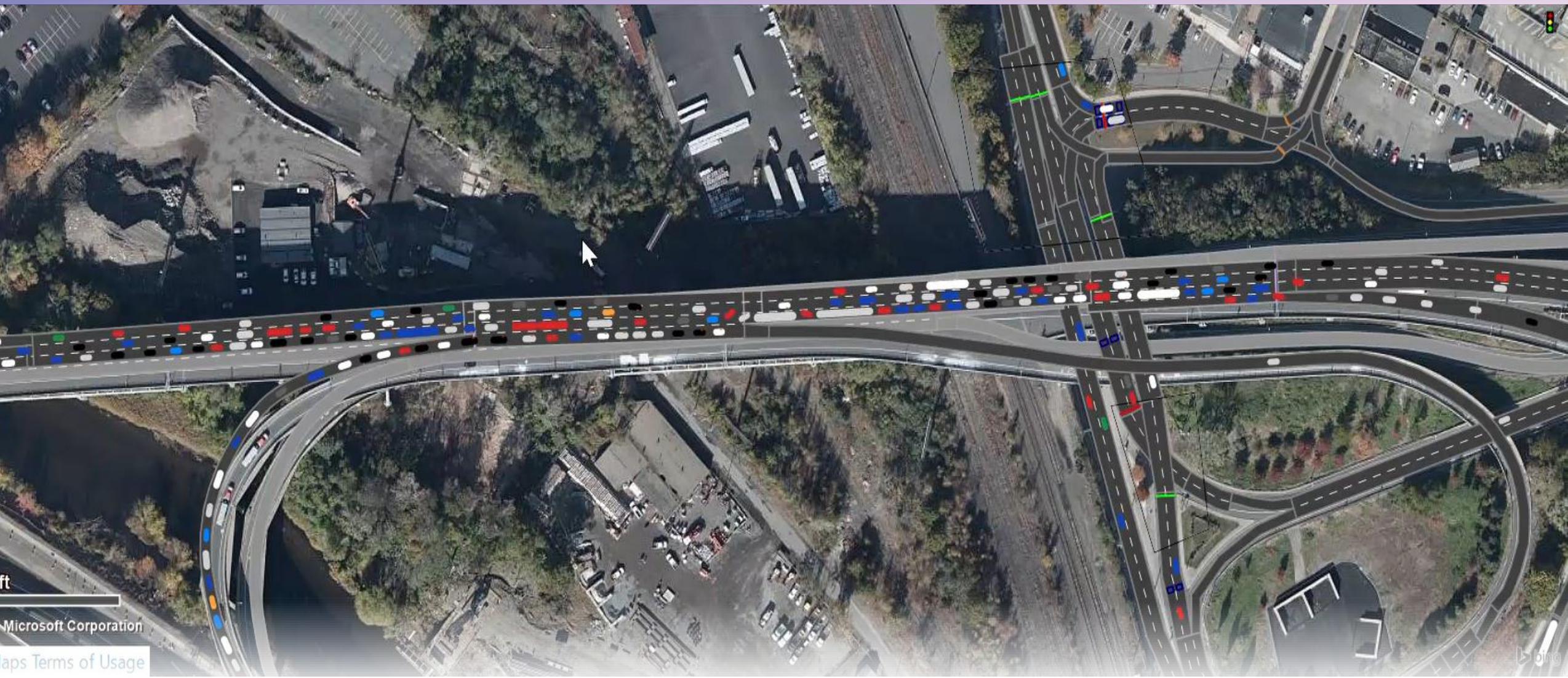


Vehicle Routes

 From I-84	 From Route 8 SB
 From Highland Ave	 From Route 8 NB

 Conflict Points

Project Need: Congestion (2017)



2031: Conditions with Exit 21 Off-ramp Open (No Build)



0:00:05



Project Need: Summary



- Substandard distances for Ramp Merges/ Weaves/ Diverges
- High Crash Location
- Recurring Congestion
- Deficient Traffic Operations
- Bridge in Poor Condition

An aerial photograph of a highway interchange, overlaid with a semi-transparent blue and purple gradient. Several circular callouts of varying sizes are placed over the image, highlighting specific areas of the interchange and surrounding infrastructure. The text is centered in the middle of the image.

Proposed Design

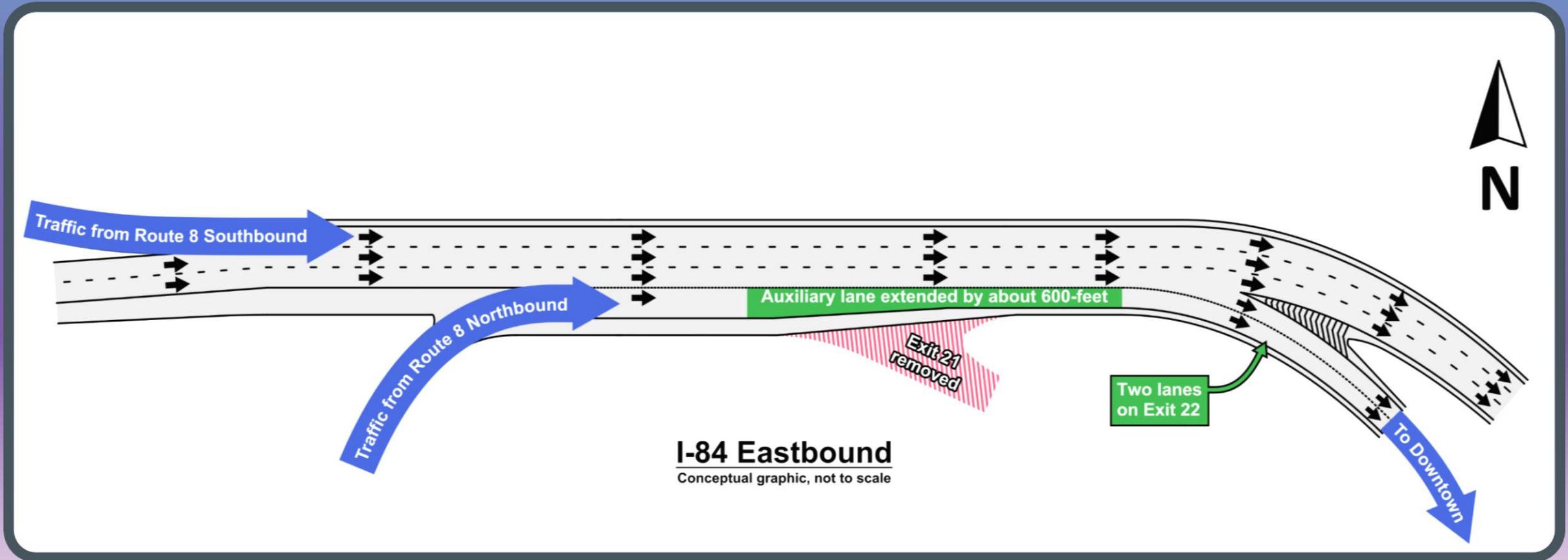
Project Purpose & Components

Project Goals

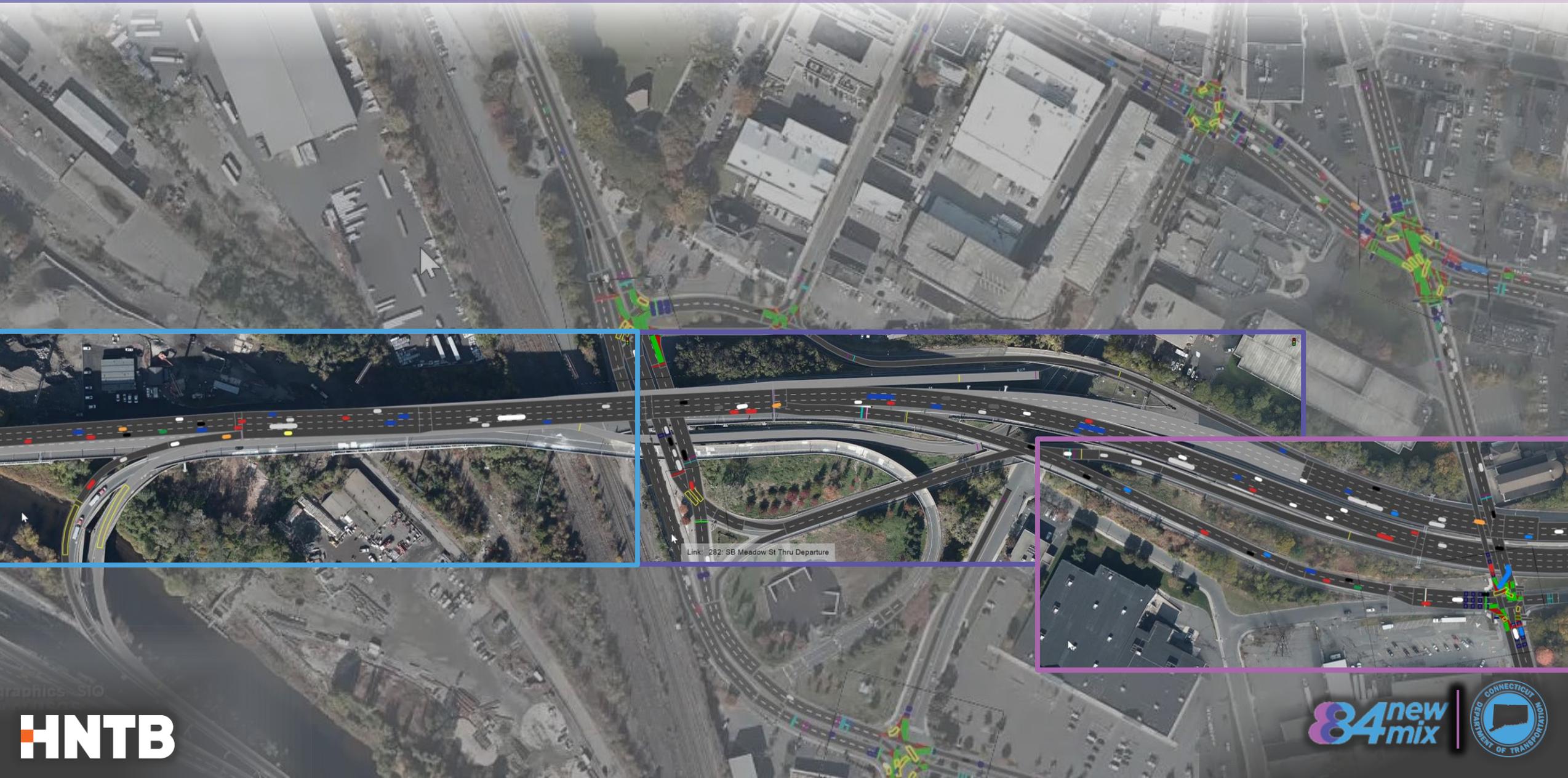
Improve:

- **Safety** on I-84 EB in the vicinity of Exits 19-22
- **Traffic Operations** on I-84 EB in the vicinity of Exits 19-22
- **Traffic Operations** for the local roads within the study area
- **Air Quality** (Reduction of idling cars)

Solutions: Close Exit 21 & Lengthen Auxiliary (Weave) Lane



2031: Conditions with Exit 21 Off-Ramp Closed (Build)



Link: 282 SB Meadow St Thru Departure

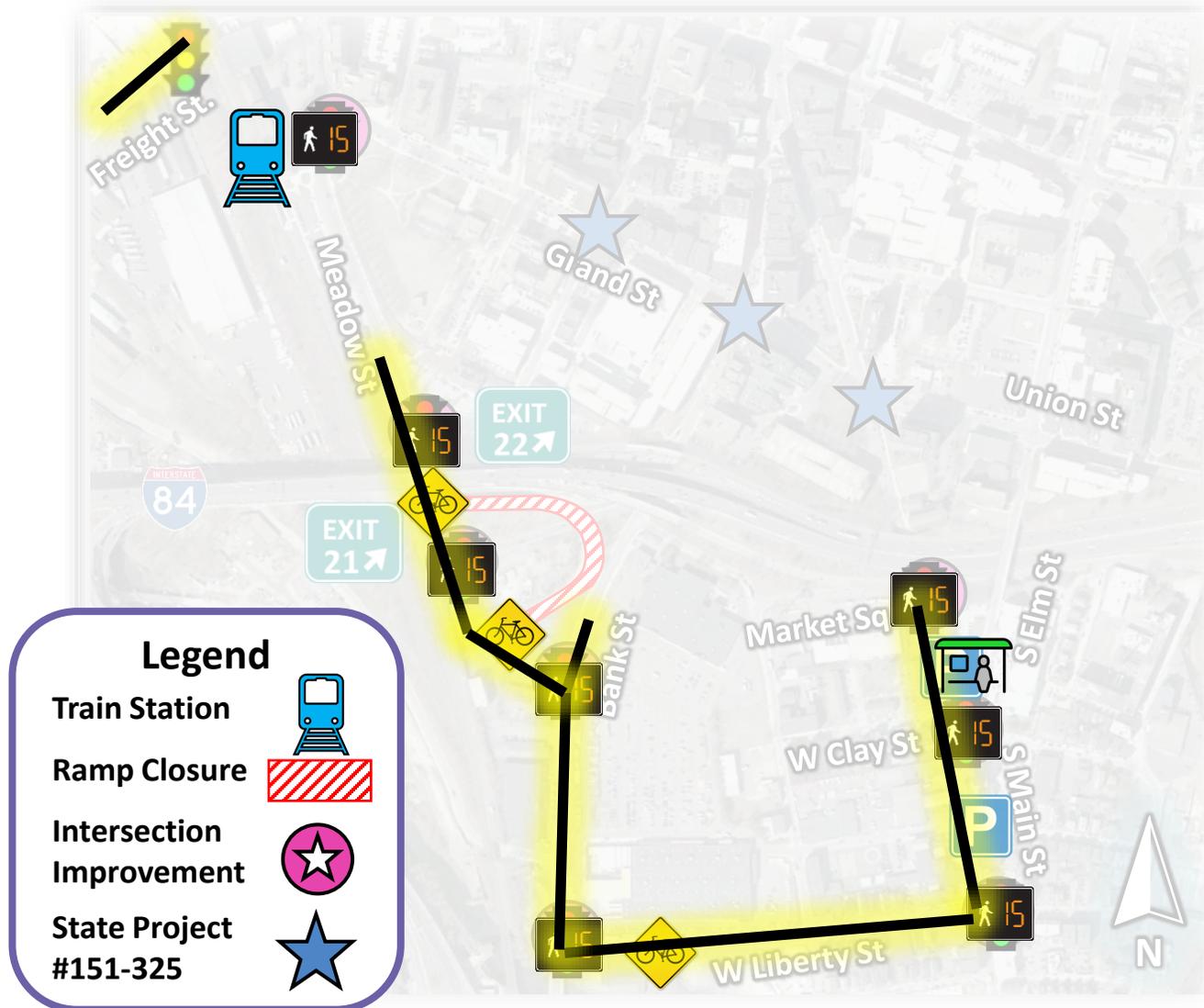
New Local System Circulation



I-84 EB Exit 22:

- South Main Street to
 - Grand Street
 - West Liberty Street/Bank Street/Meadow Street

Local Project Limits & Improvements



Improvements:

- Traffic Signal Upgrades



- Formalized Parking



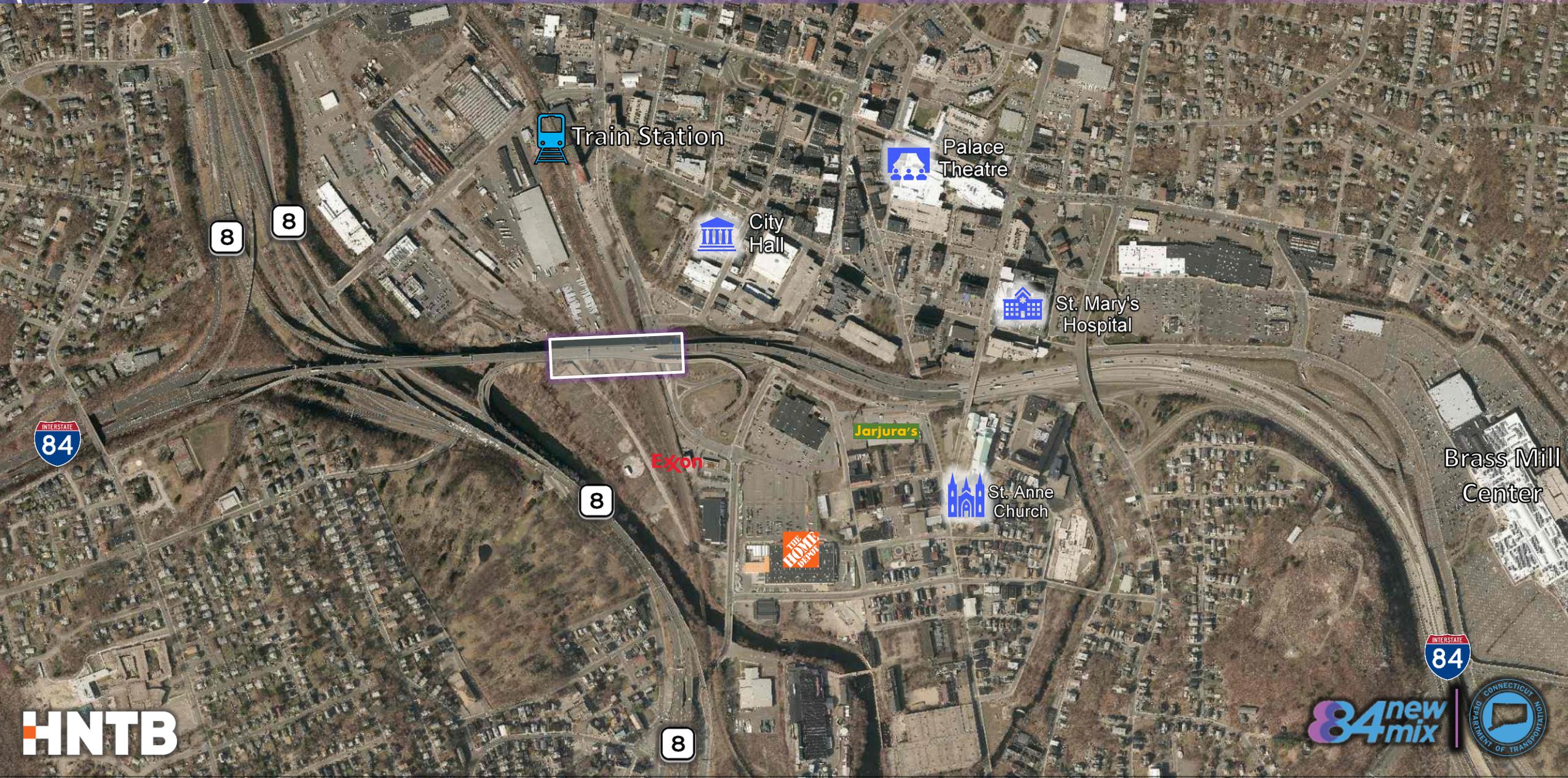
- Bike/Ped/Transit Amenities



- Pavement Restoration & Pavement Markings



I-84 EB (At Exit 21)



 Train Station

 Palace Theatre

 City Hall

 St. Mary's Hospital

Jarjura's

Exxon

 St. Anne Church

Brass Mill Center

8

8

8

8

INTERSTATE
84

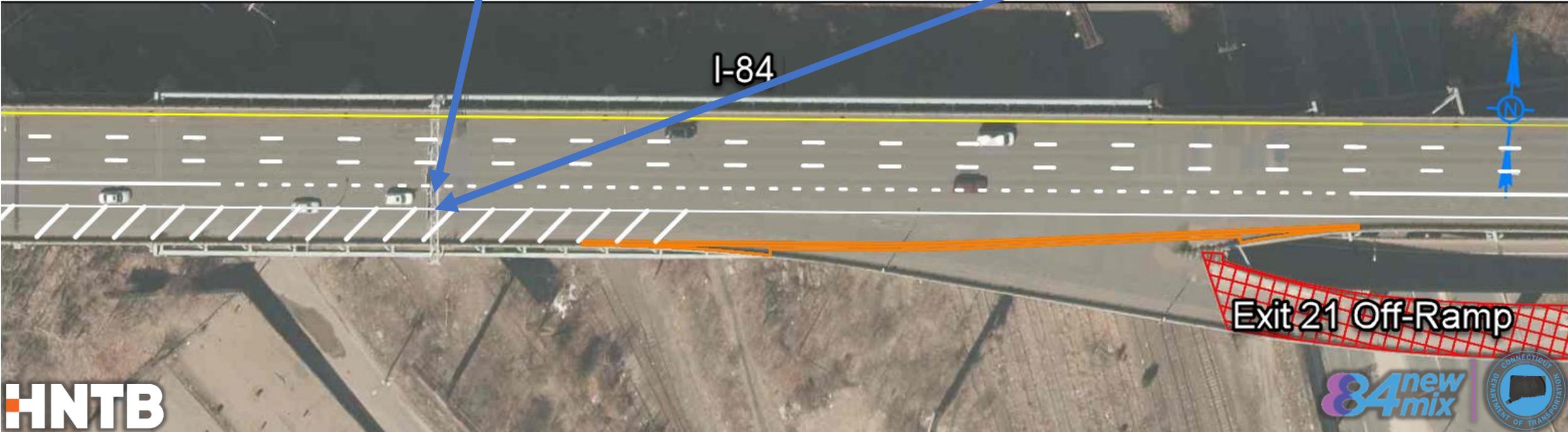
INTERSTATE
84

HNTB

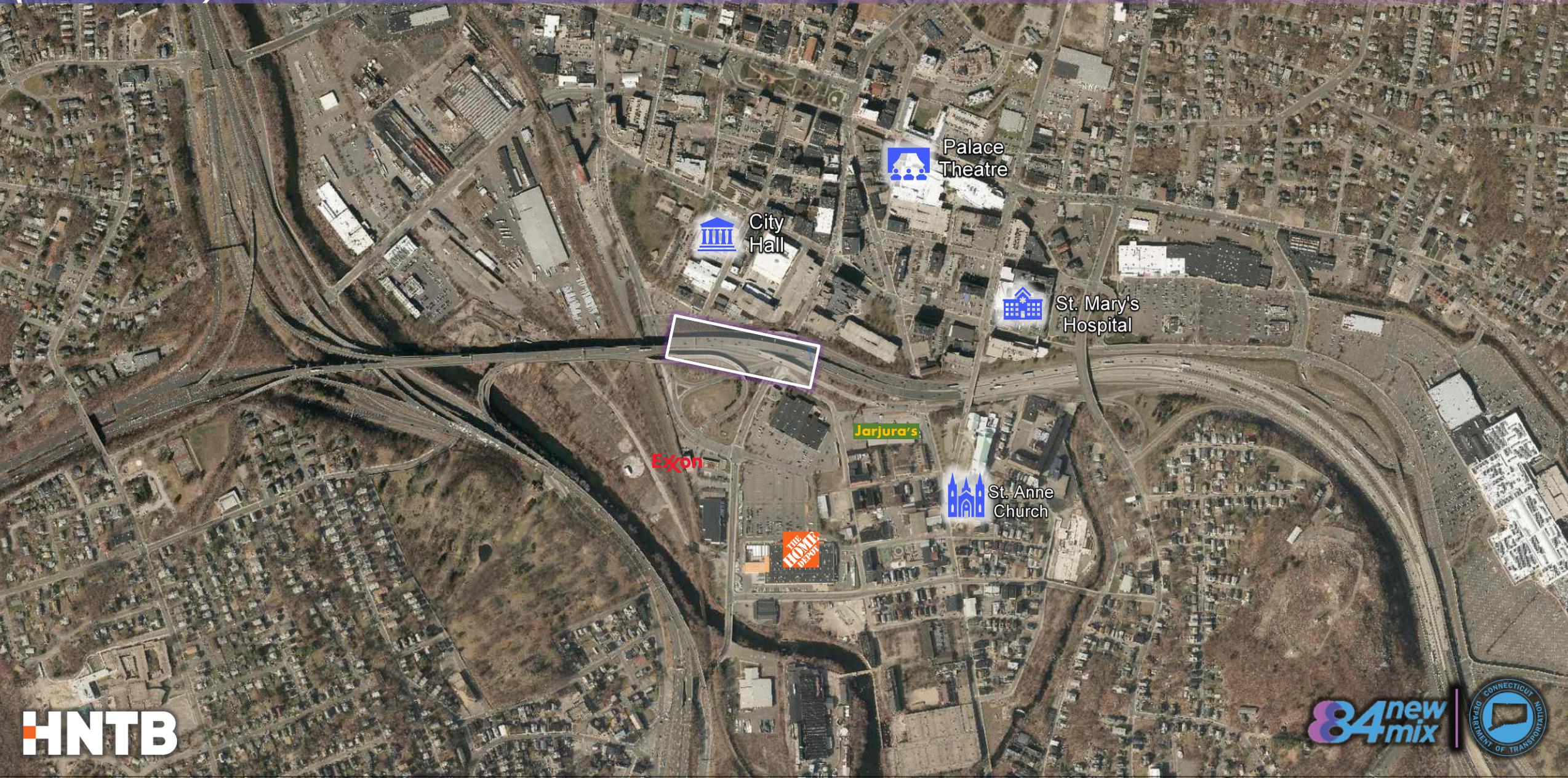
84 new mix



I-84 EB (At Exit 21)



I-84 EB (At Exit 22)



City Hall

Palace Theatre

St. Mary's Hospital

Jarjura's

St. Anne Church

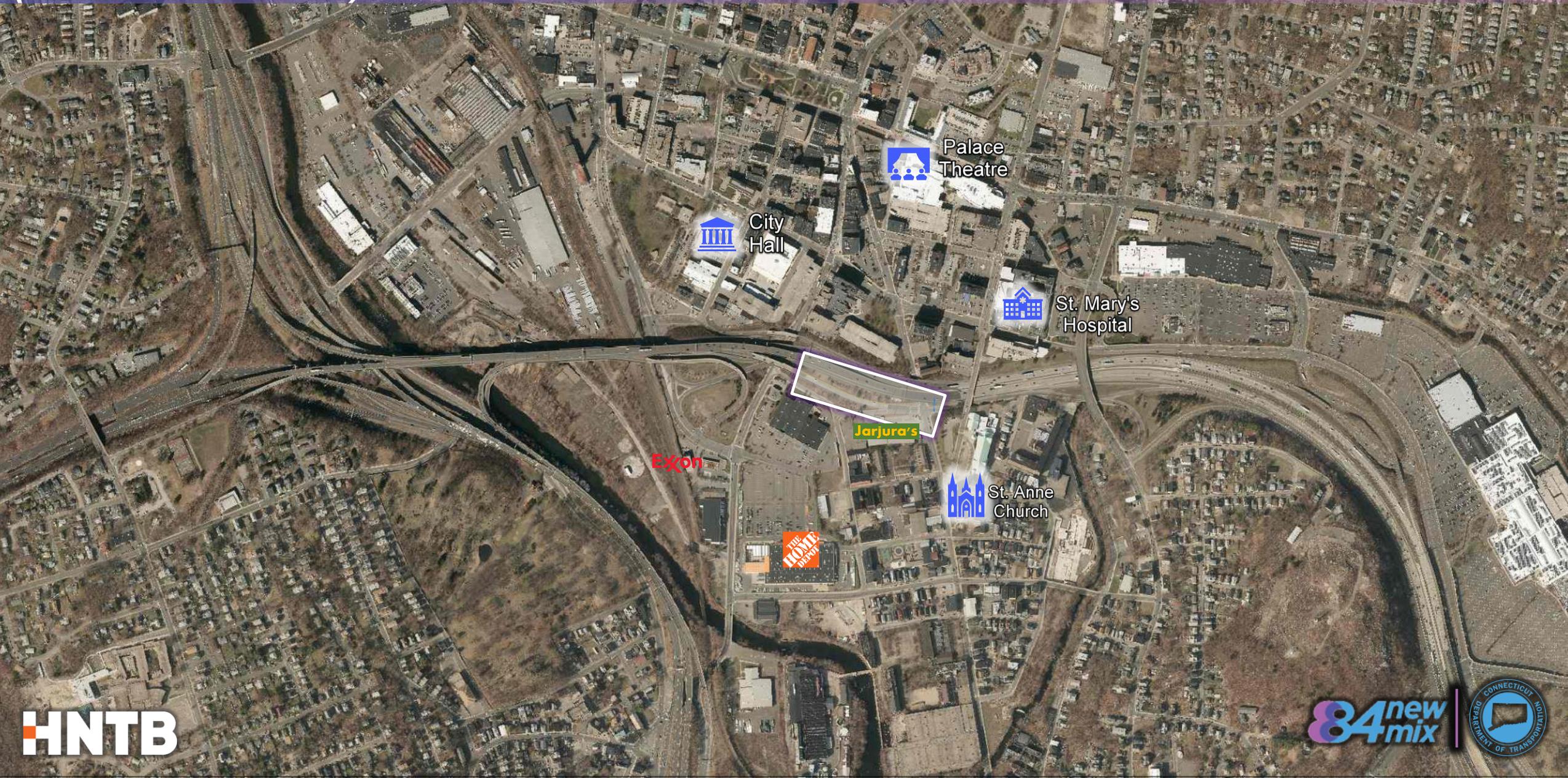
Exxon

THE HOME DEPOT

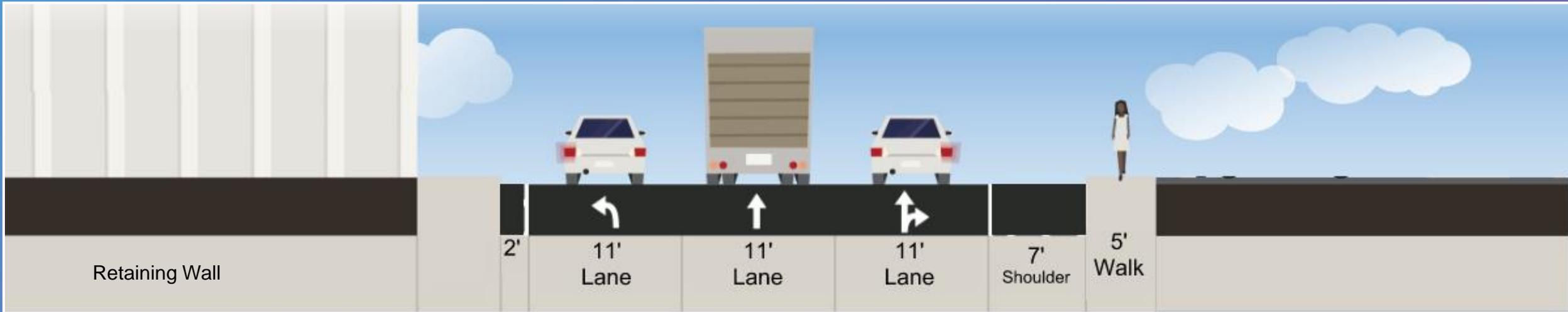
I-84 EB (At Exit 22)



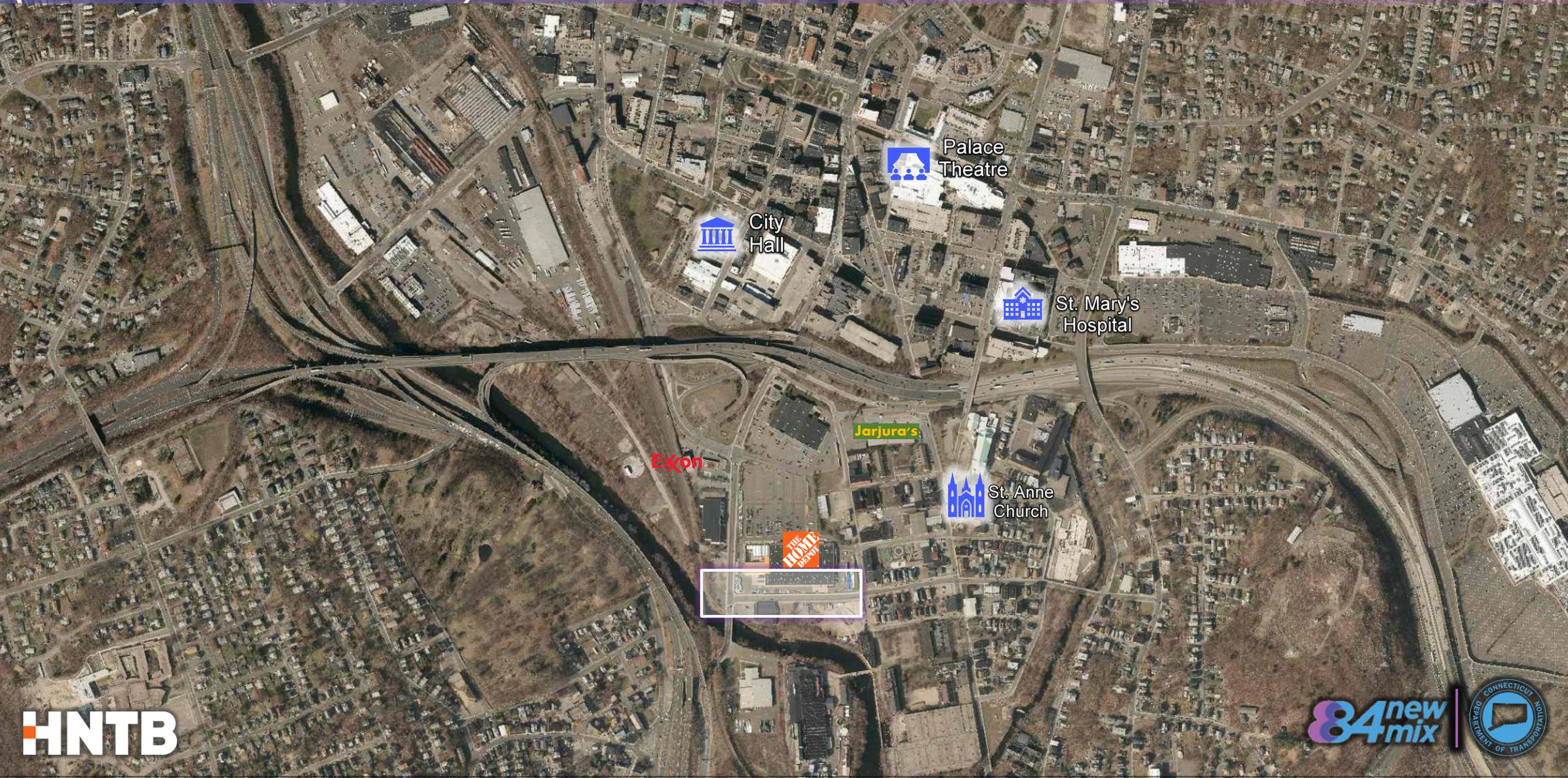
I-84 EB - Exit 22/ Market Square (At South Main St.)



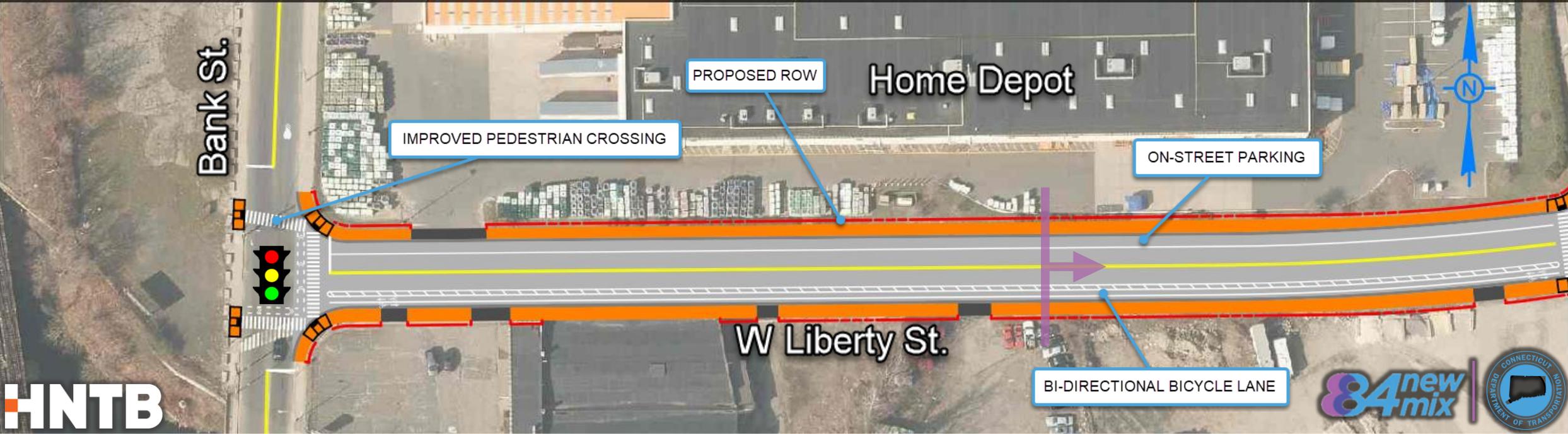
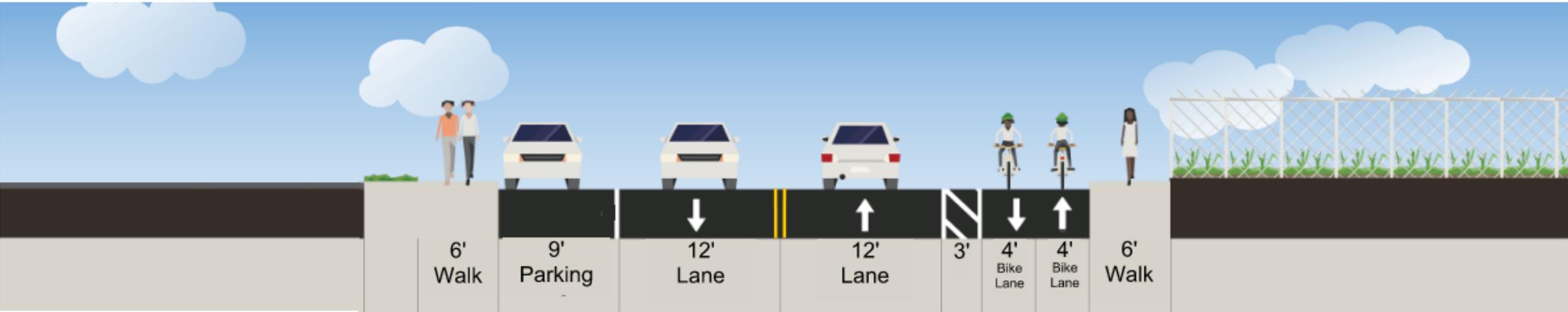
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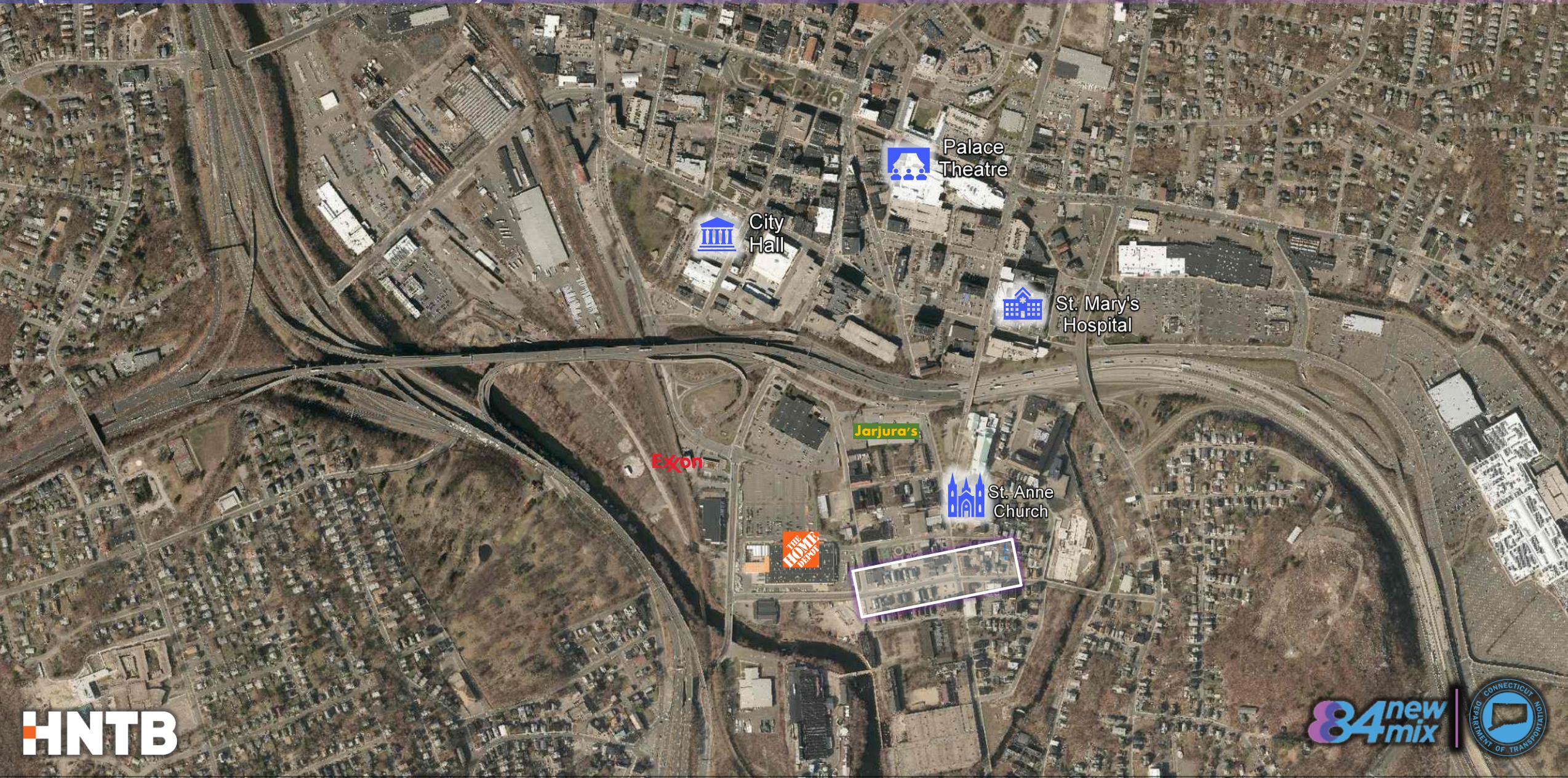
West Liberty Street (West of Benedict Street)



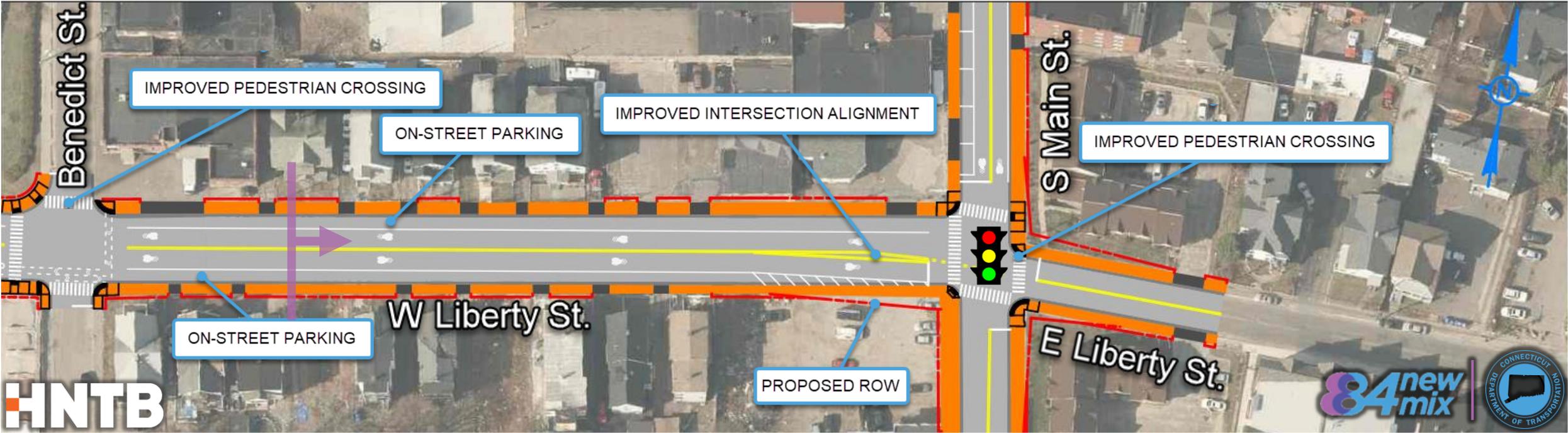
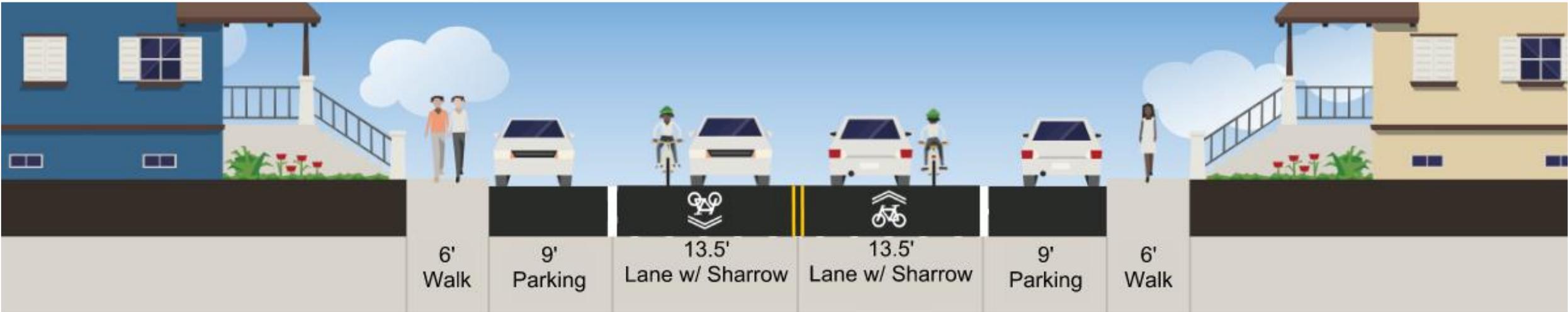
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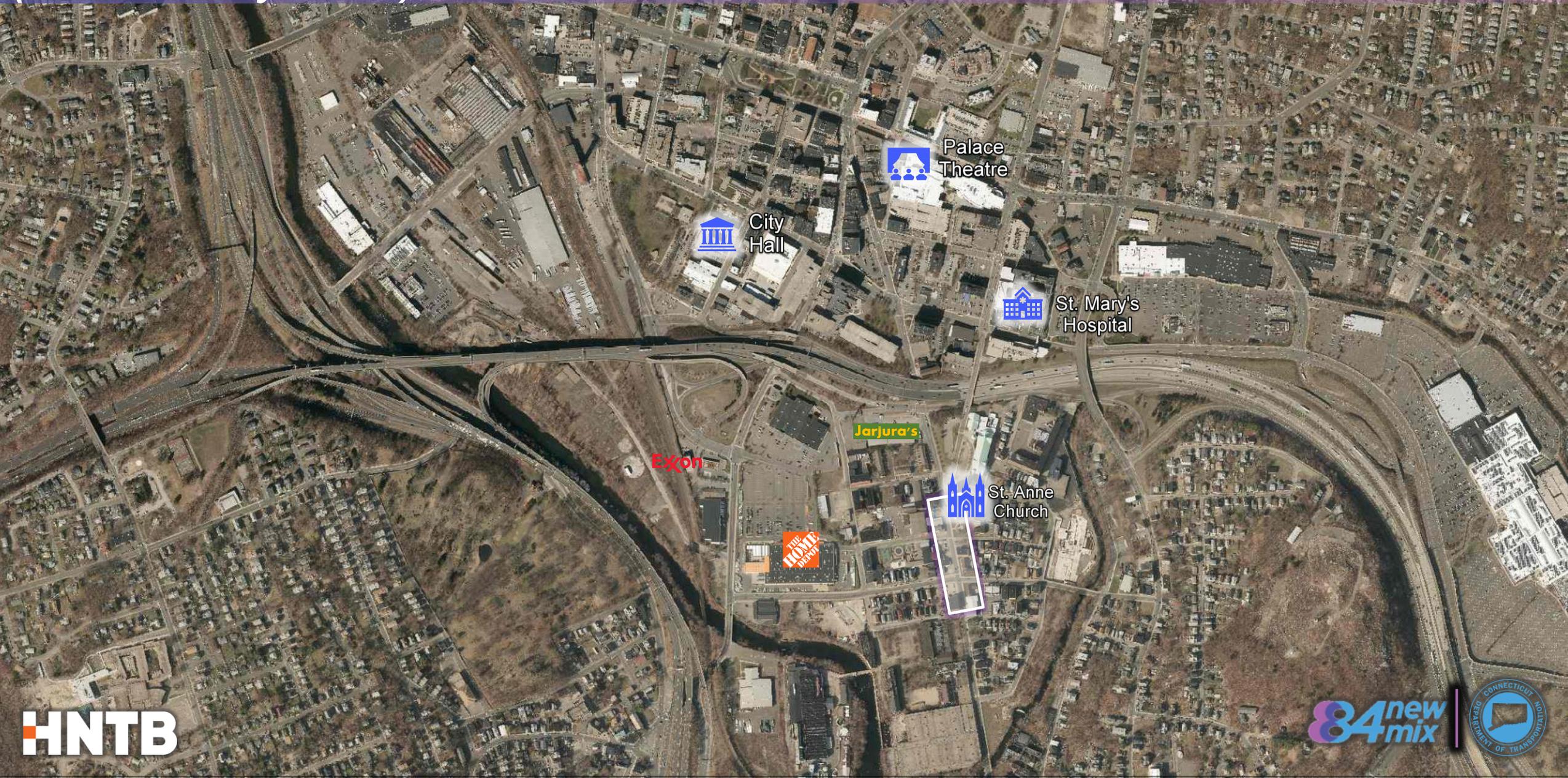
West Liberty Street (East of Benedict Street)



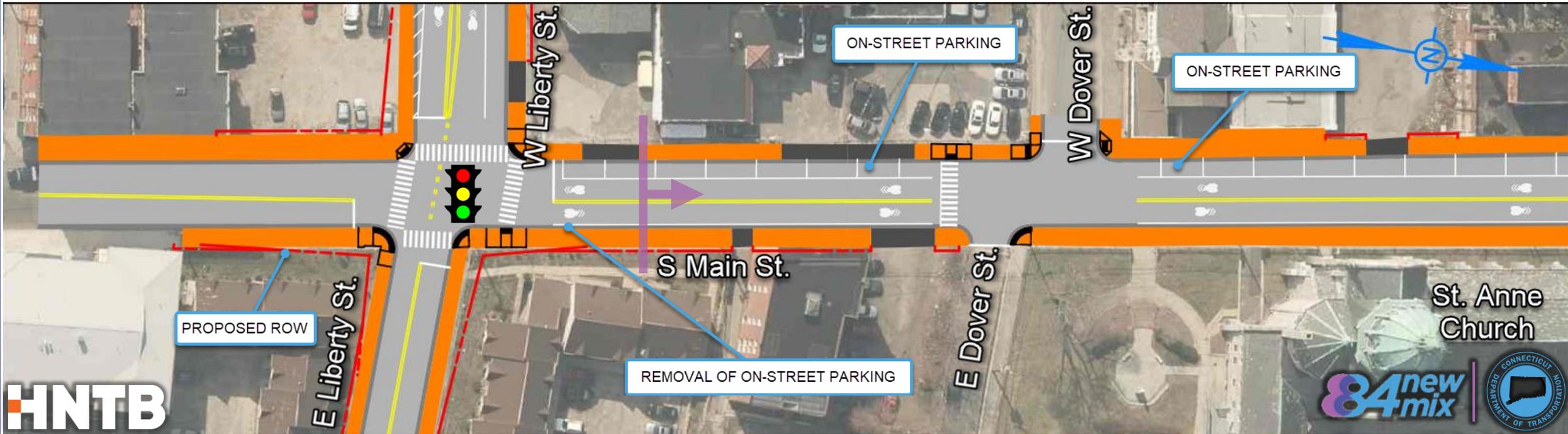
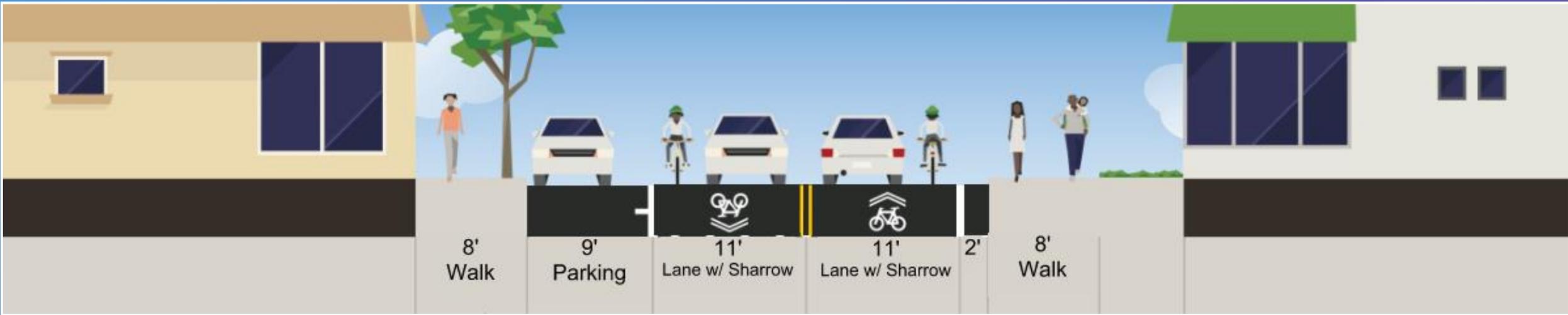
West Liberty Street (East of Benedict Street)



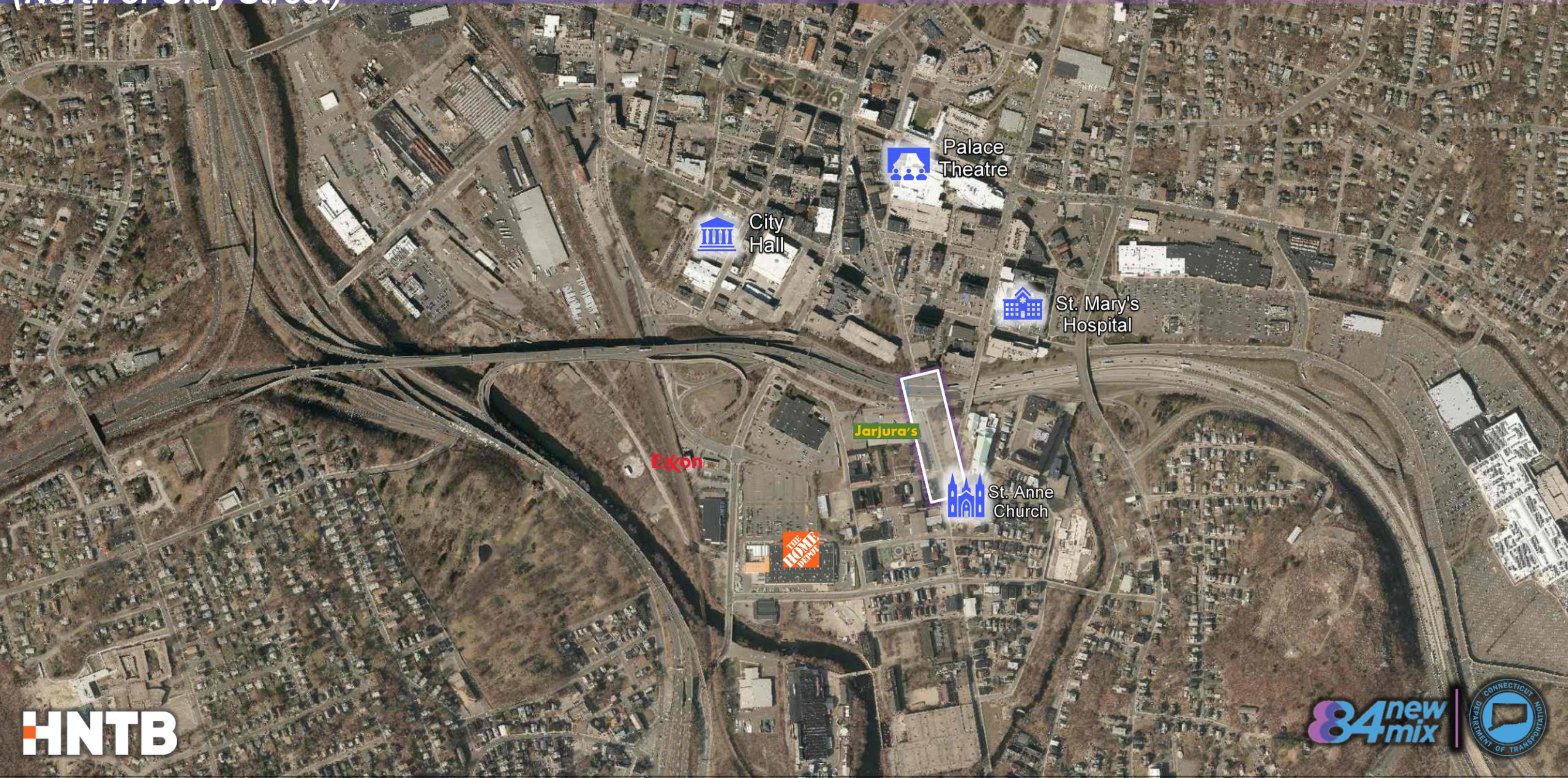
South Main Street (South of Clay Street)



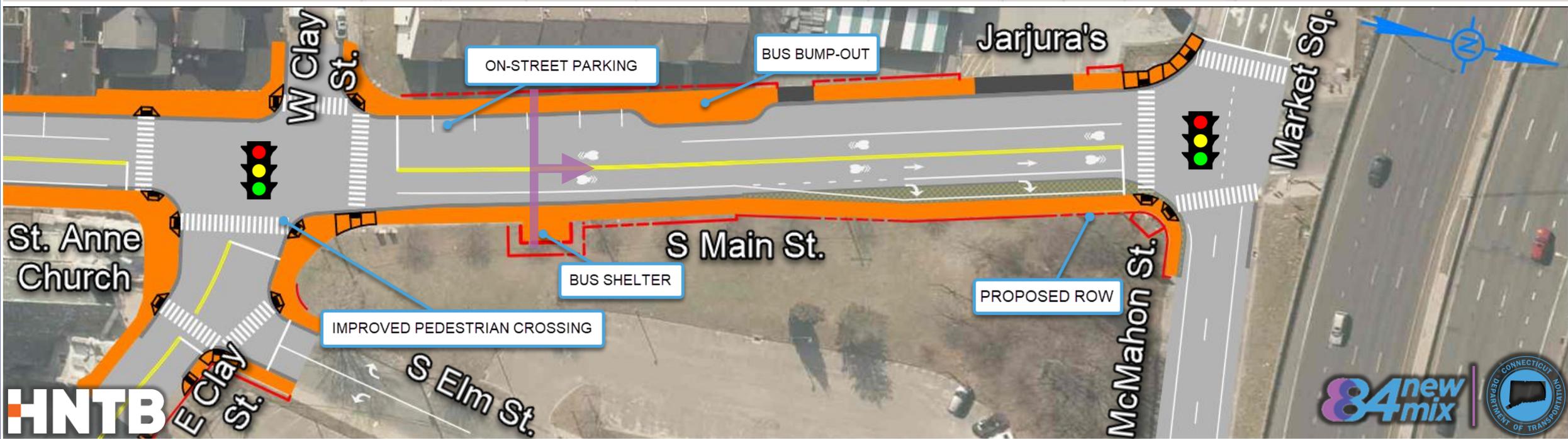
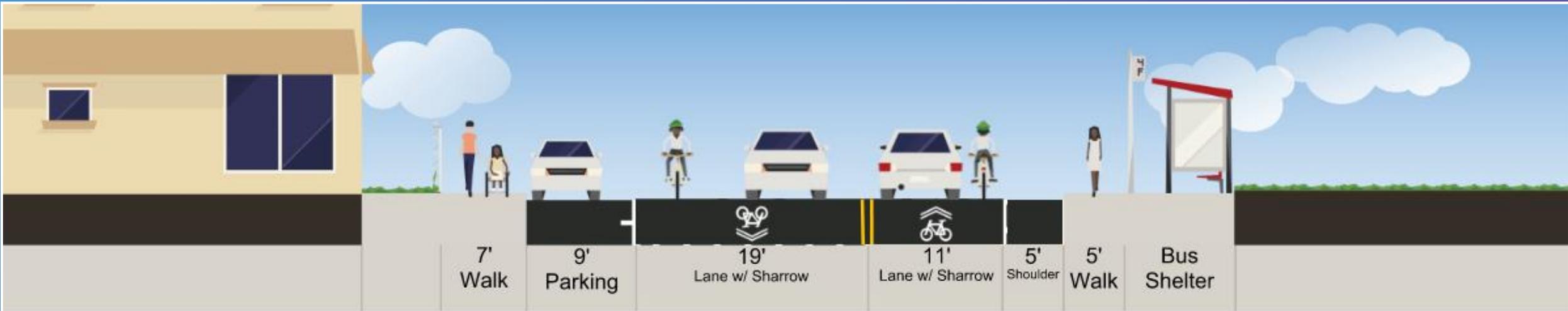
South Main Street (South of Clay Street)



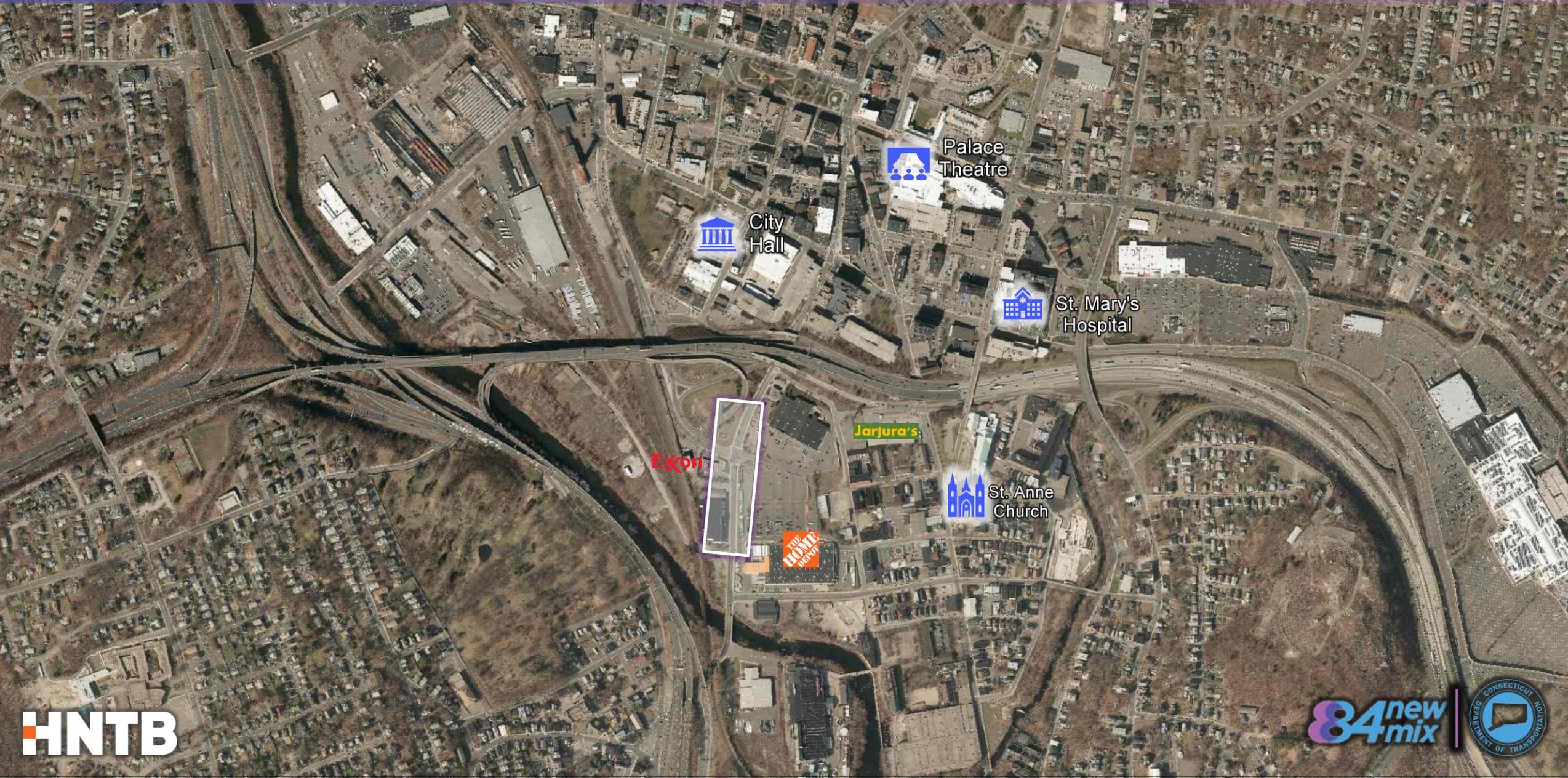
South Main Street (North of Clay Street)



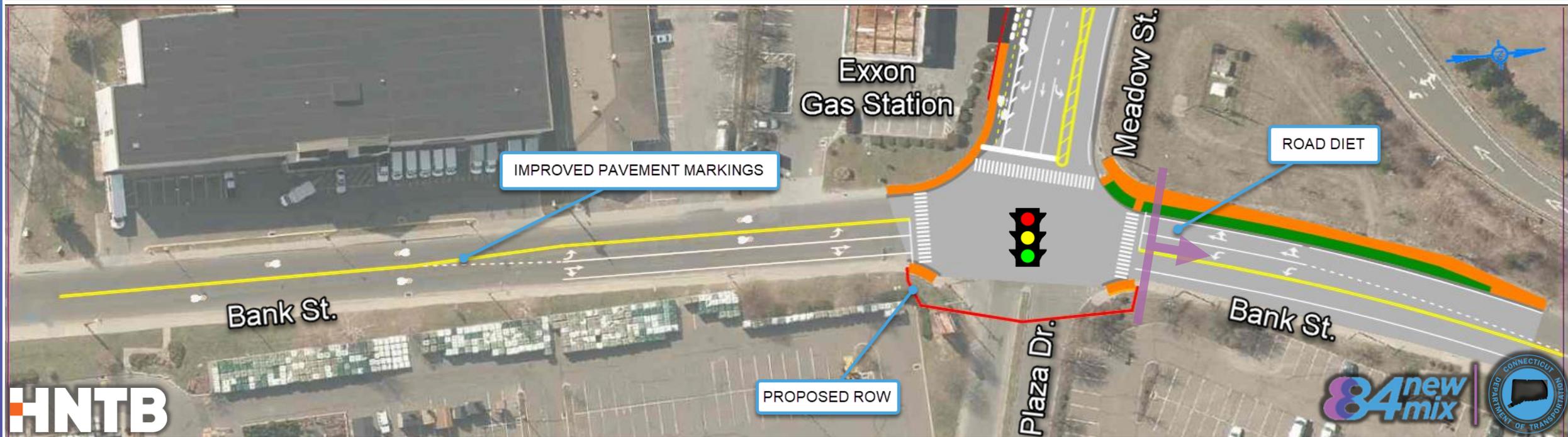
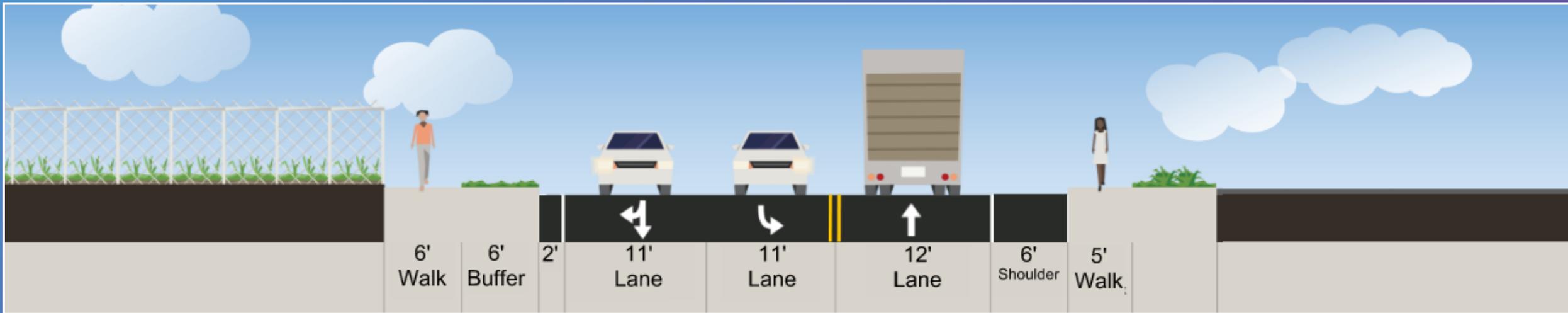
South Main Street (North of Clay Street)



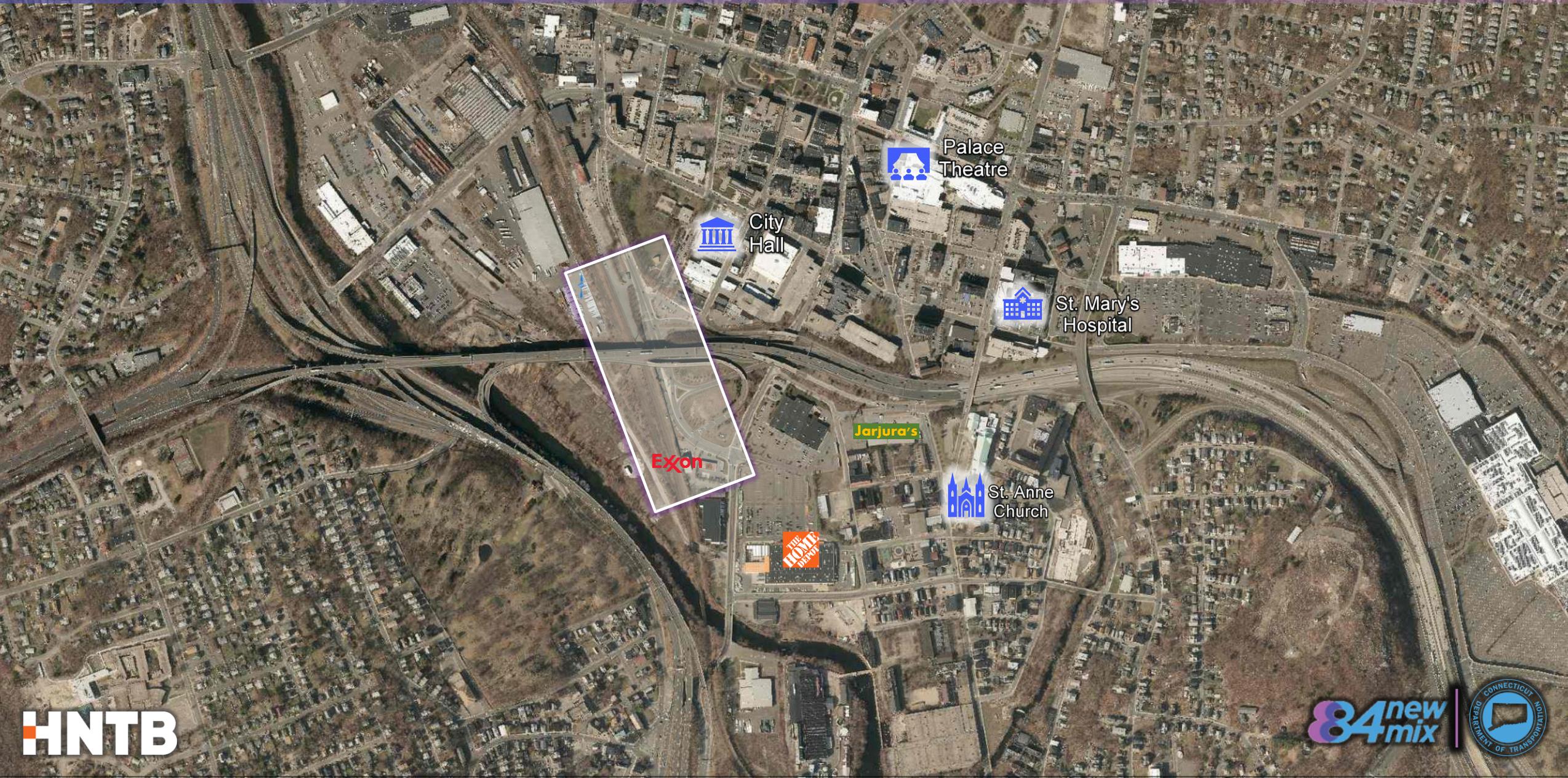
Bank Street



Bank Street



Meadow Street



City Hall

Palace Theatre

St. Mary's Hospital

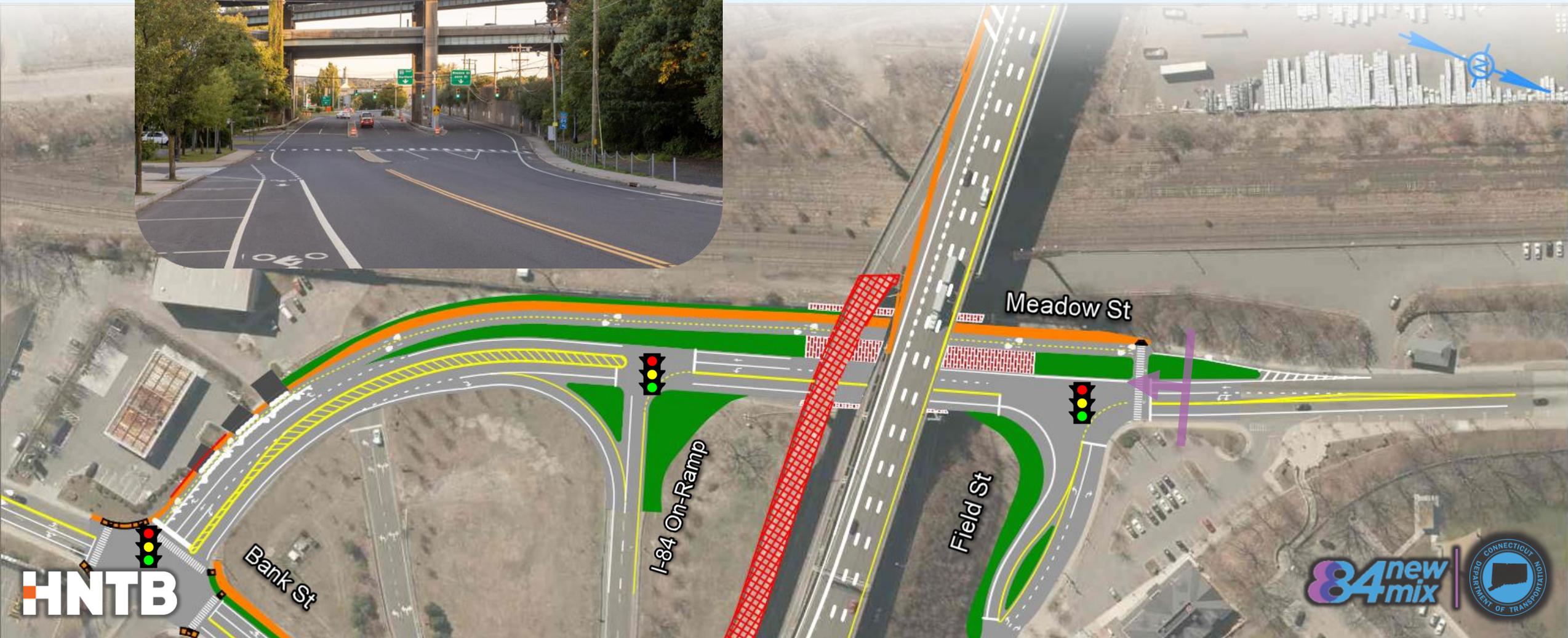
Jarjura's

Exxon

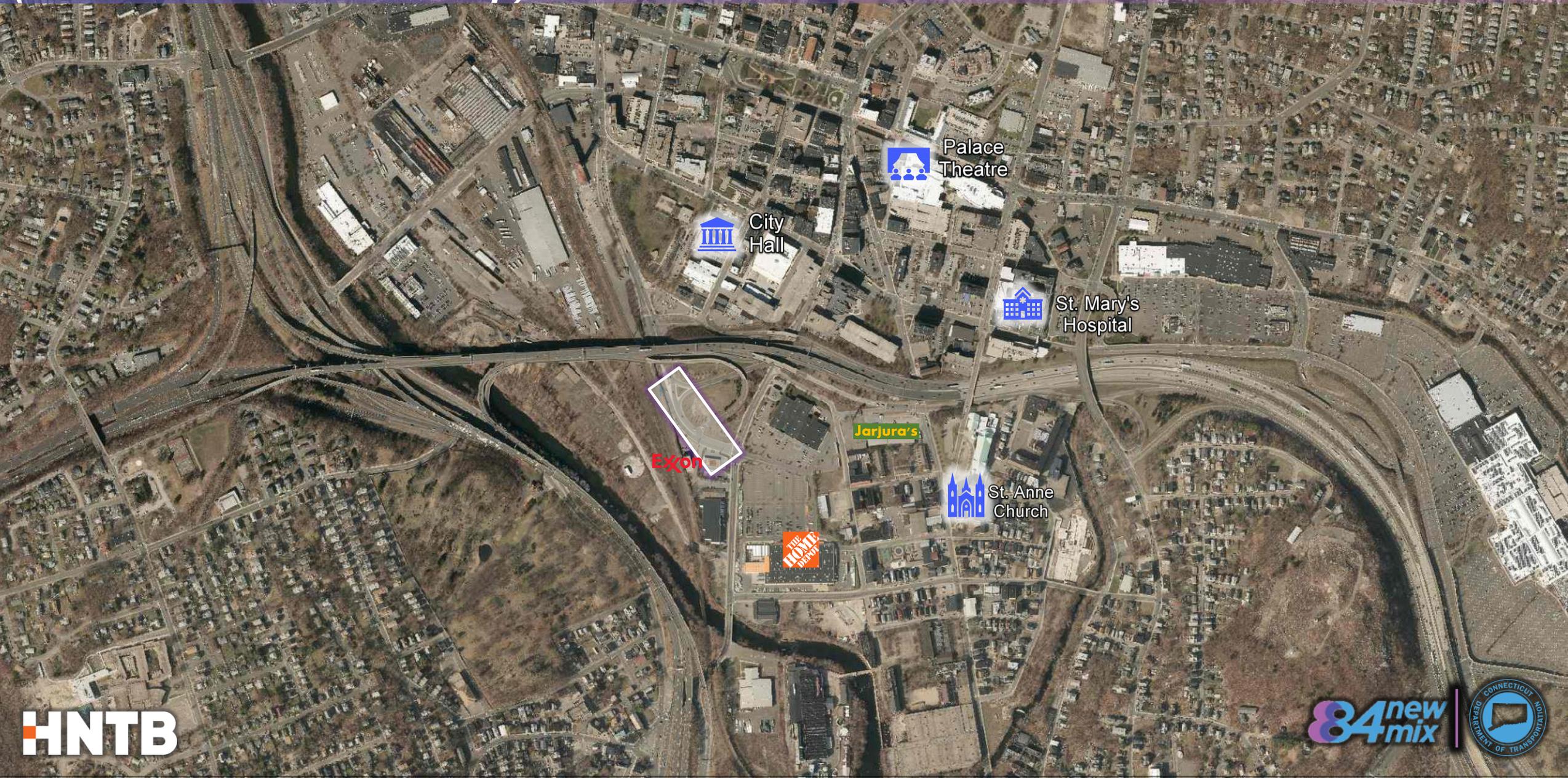
St. Anne Church

THE HOME DEPOT

Meadow Street (Existing)



Meadow Street (South of I-84 EB On-Ramp)



City Hall

Palace Theatre

St. Mary's Hospital

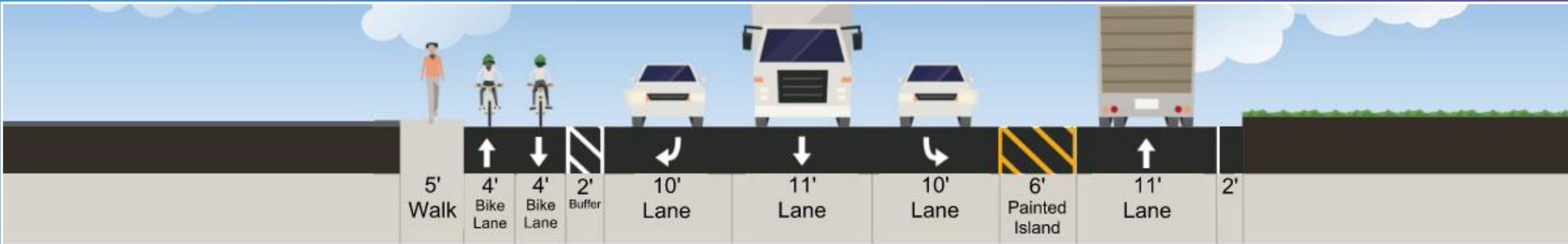
Exxon

Jarjura's

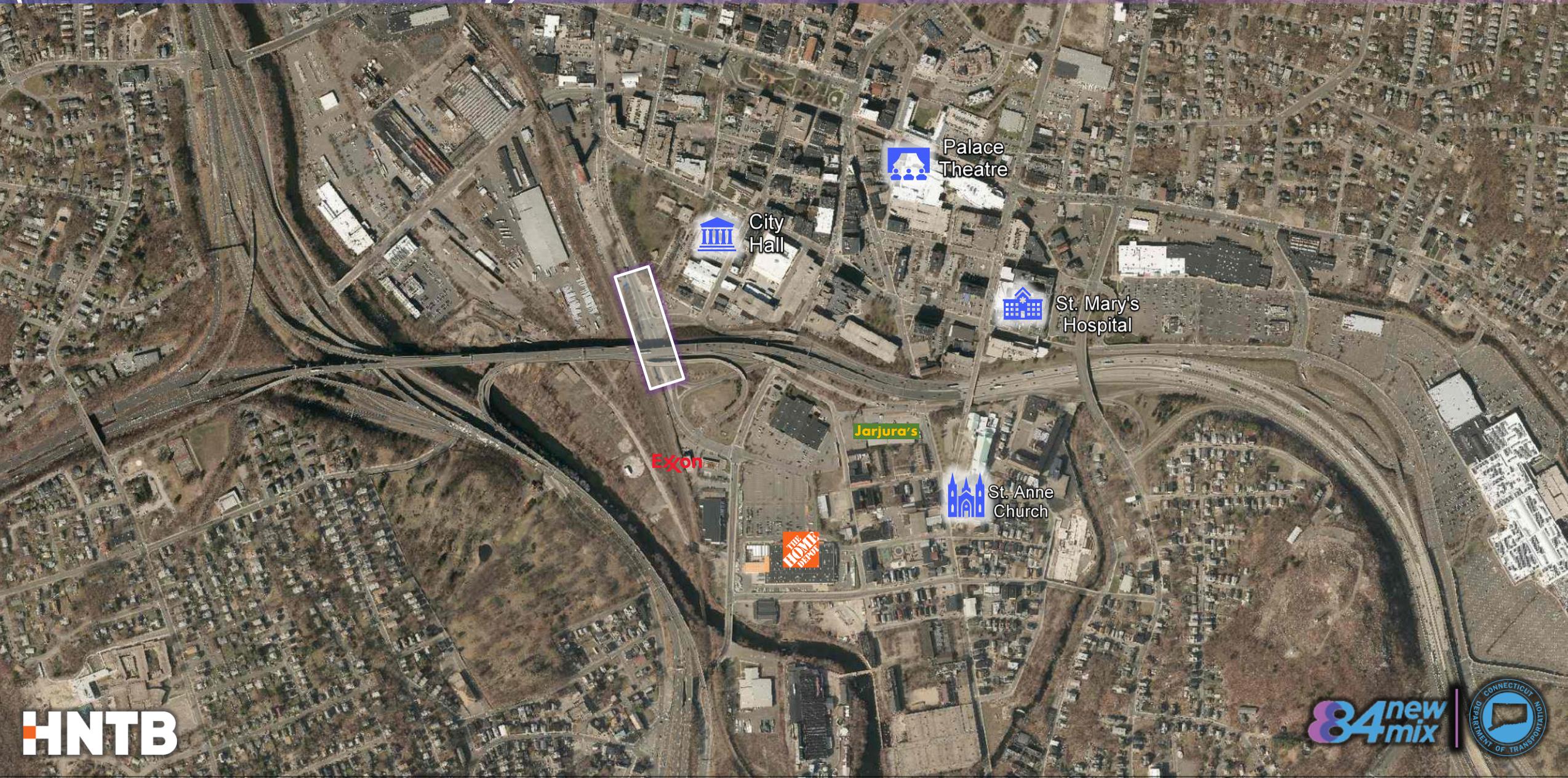
St. Anne Church

THE HOME DEPOT

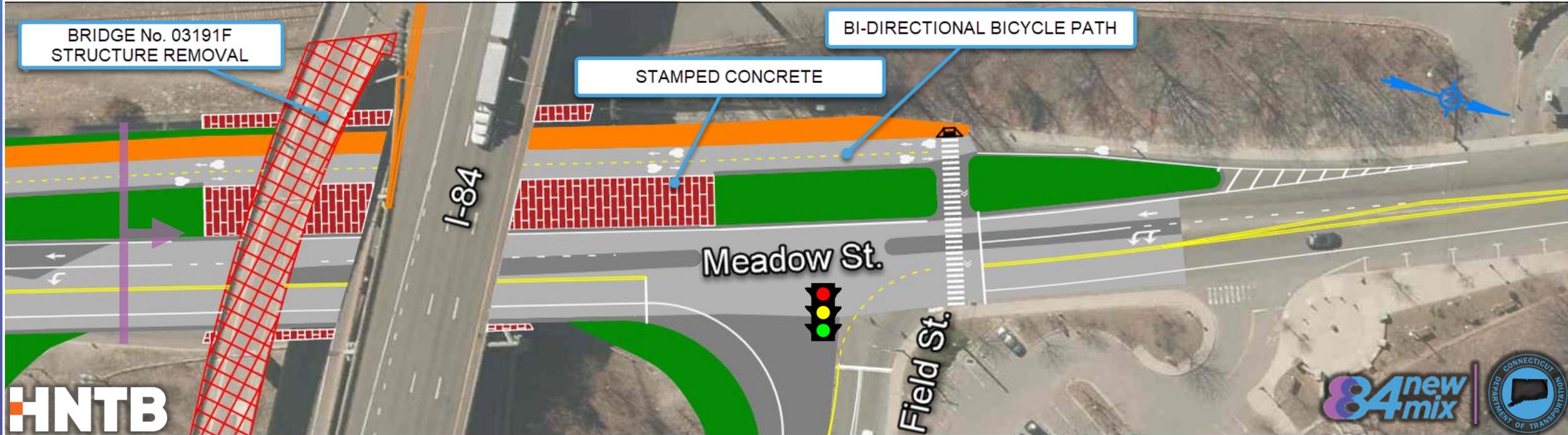
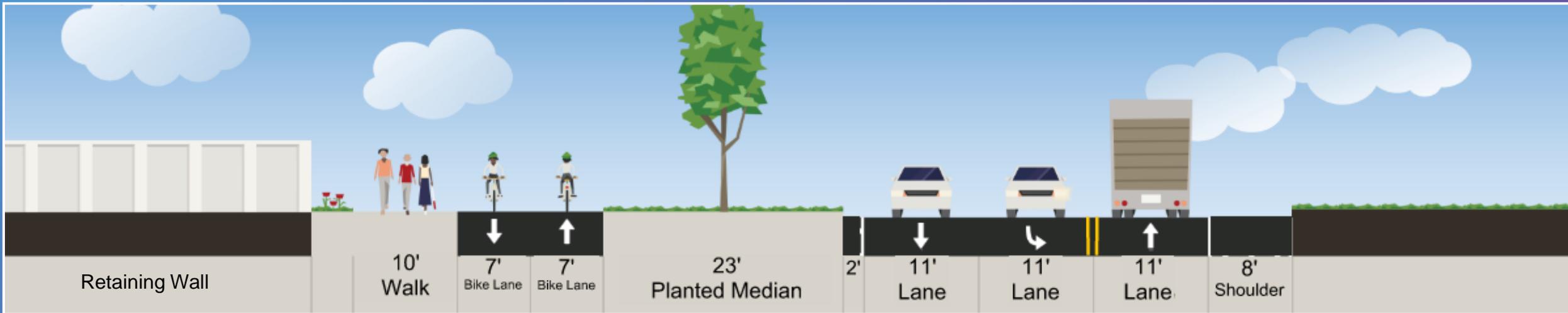
Meadow Street (South of I-84 EB On-Ramp)



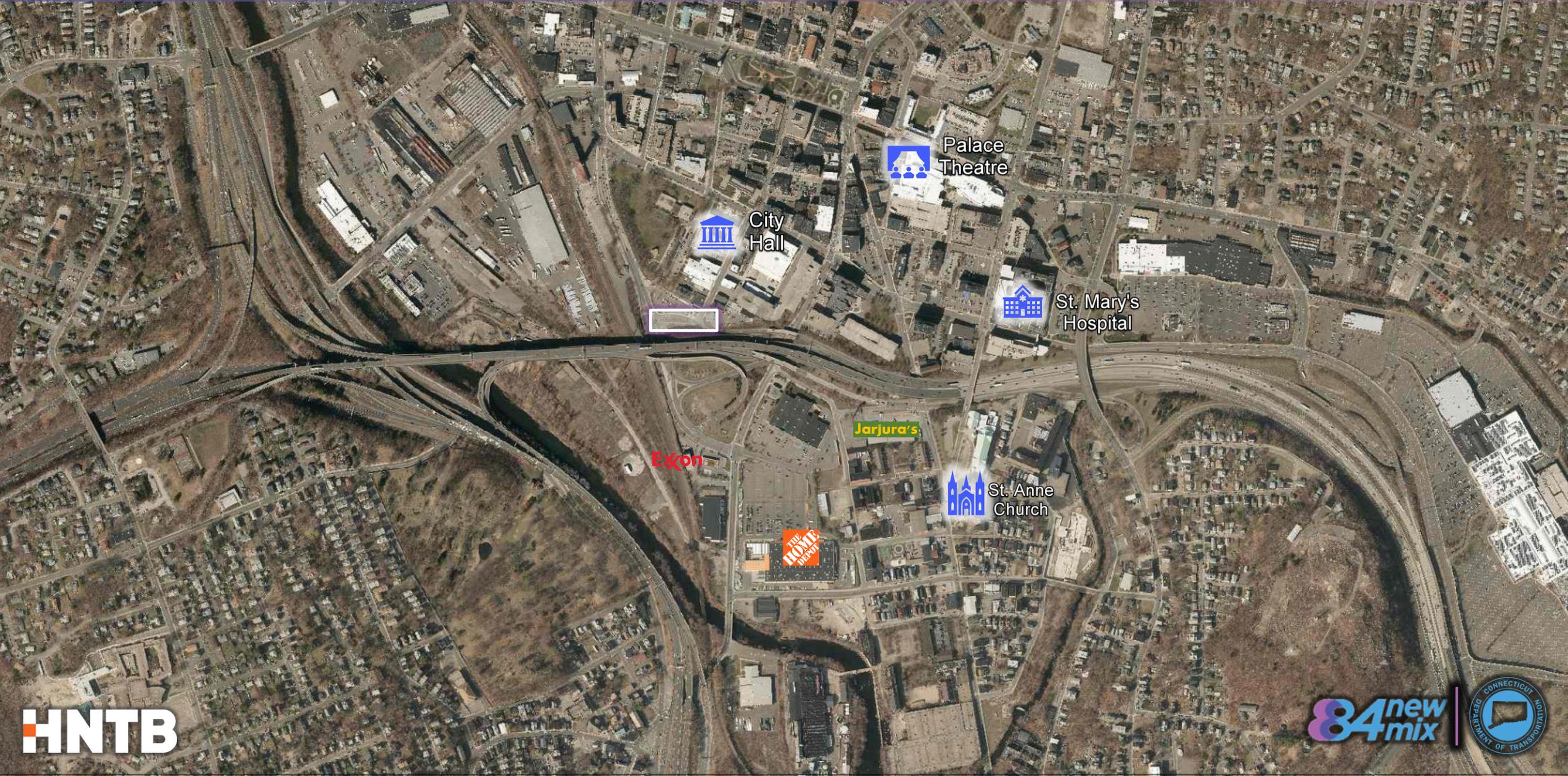
Meadow Street (North of I-84 EB On-Ramp)



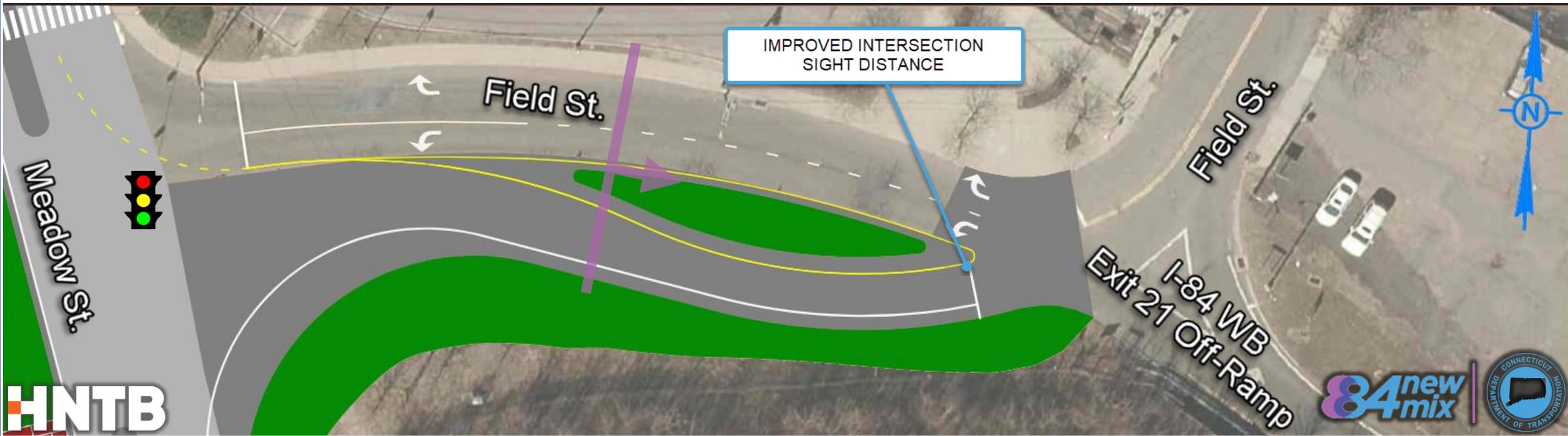
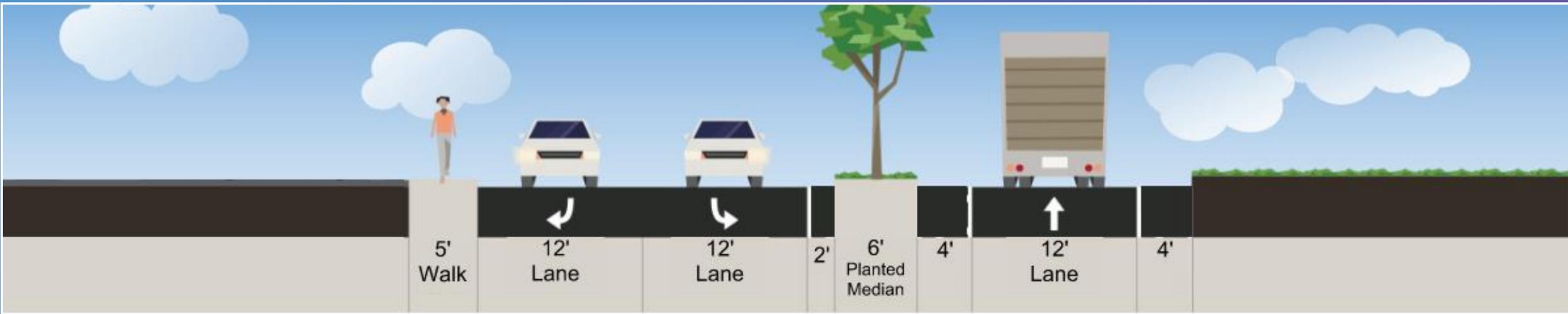
Meadow Street (North of I-84 EB On-Ramp)



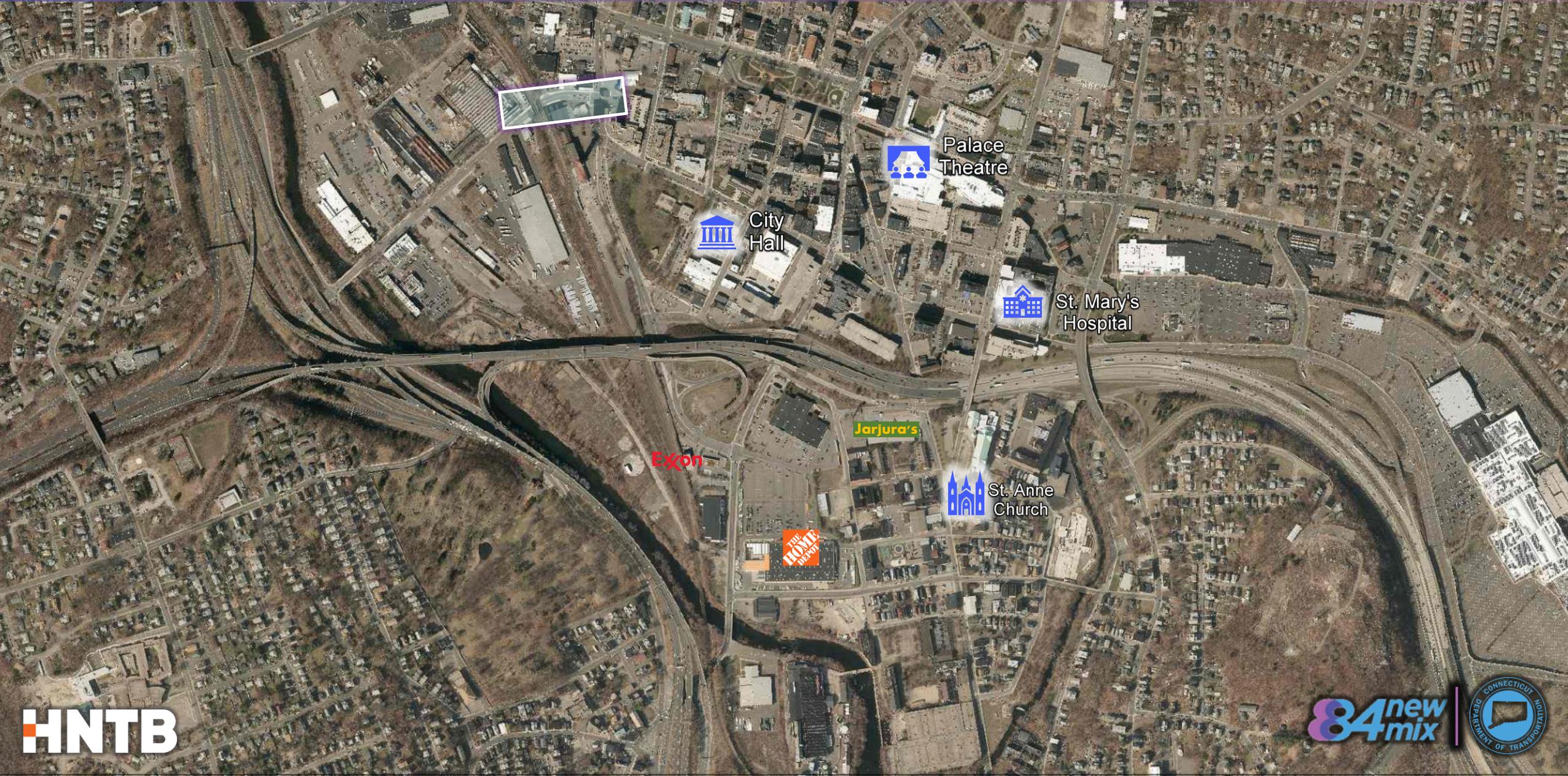
Field Street



Field Street

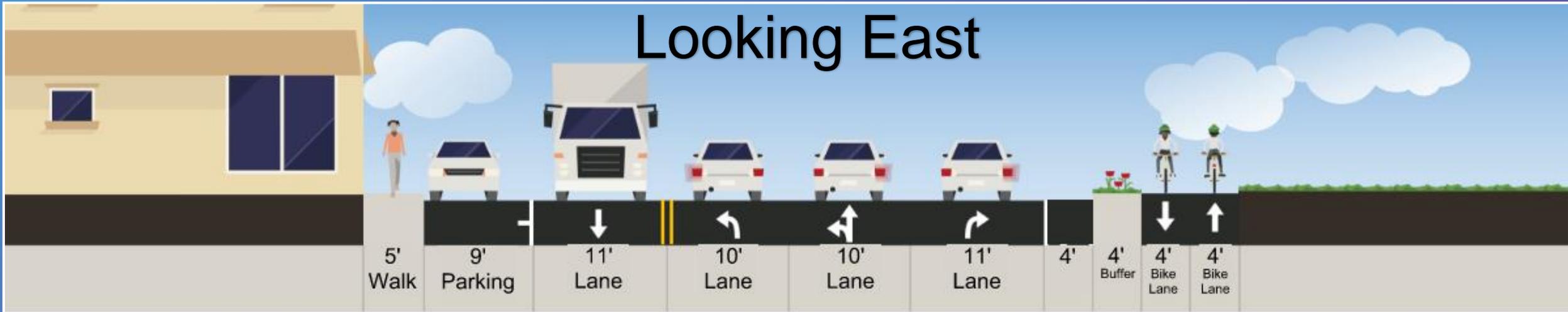


Freight Street



Freight Street

Looking East



Rights of Way

Temporary

- **28 Construction Easements**

Permanent

- **3 Partial Acquisitions**
- **6 Traffic Easements**
- **3 Easements for Intersection Sight Distance/ Sightline**
- **1 Easement for Slopes Supporting Highway**
- **1 Easement for Installation & Maintenance of Bus Shelter & Appurtenances**

Division of Rights of Way

Function: Acquire all property/property rights necessary for the project.

Relevant Laws

State of Connecticut

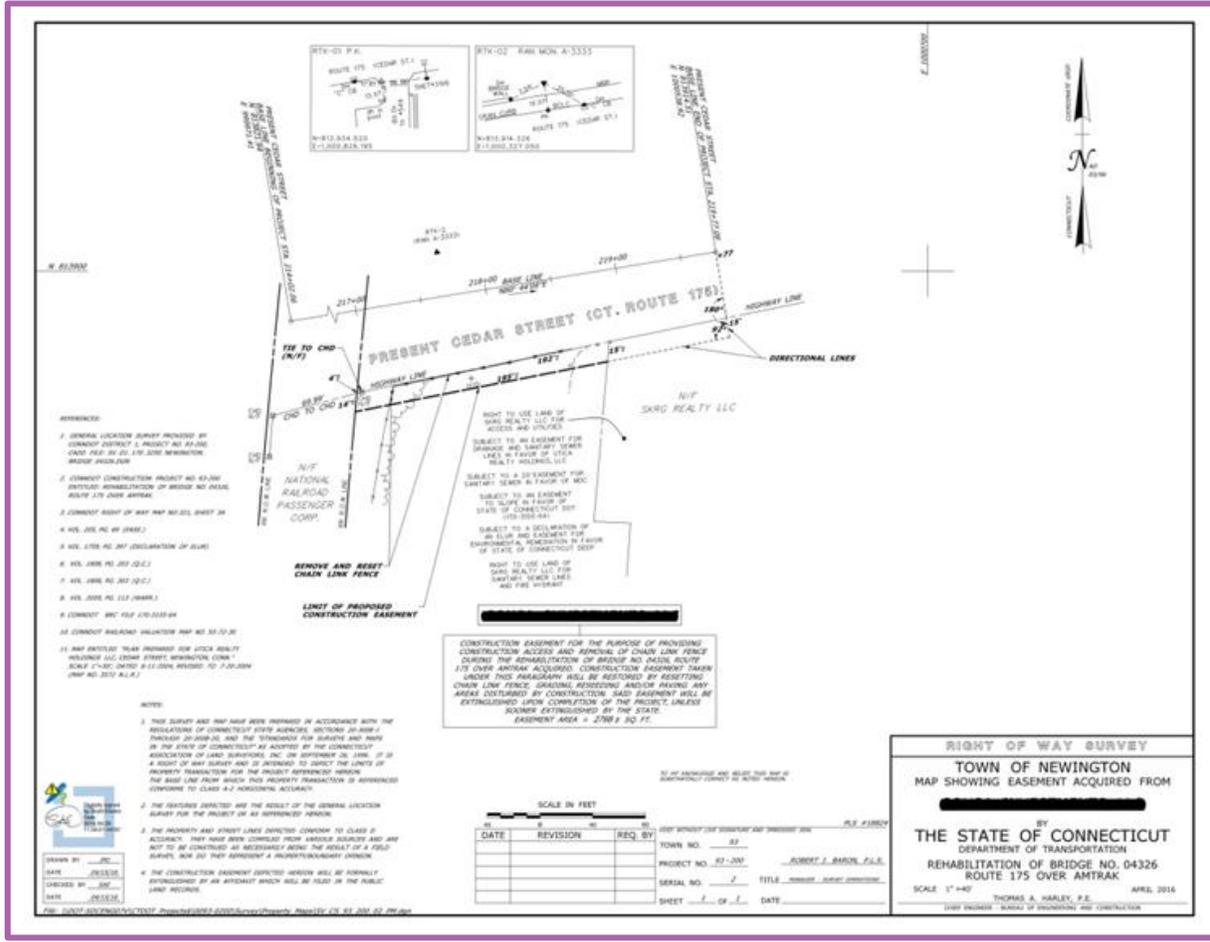
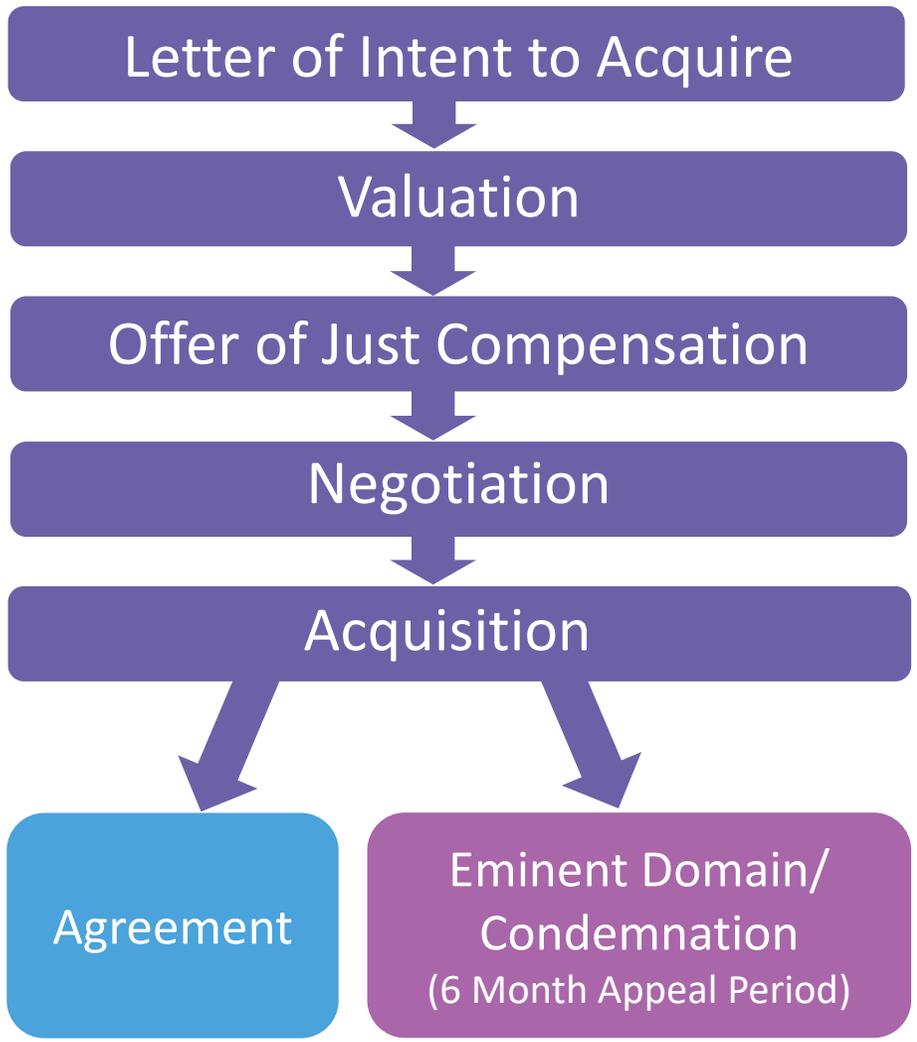
- C.G.S. Section 13a-73 & 13a-98e

Federal

- Uniform Relocation Assistance & Real Properties Acquisition Policies Act of 1970, as amended.



ROW – Acquisition Process



Sample Property Map

Project Cost

Construction Cost: \$20,805,400

ROW Cost: \$630,000

Total: \$21,435,400

80% Federally Funded (STBG)

20% State Funded

Public Outreach



Fact Sheets sent to Residents & Businesses:

- South Main St.
- West Liberty St.
- East Liberty St.
- Bank St.
- Meadow St.
- East Clay St.
- West Clay St.
- Bond St.
- Mill St.

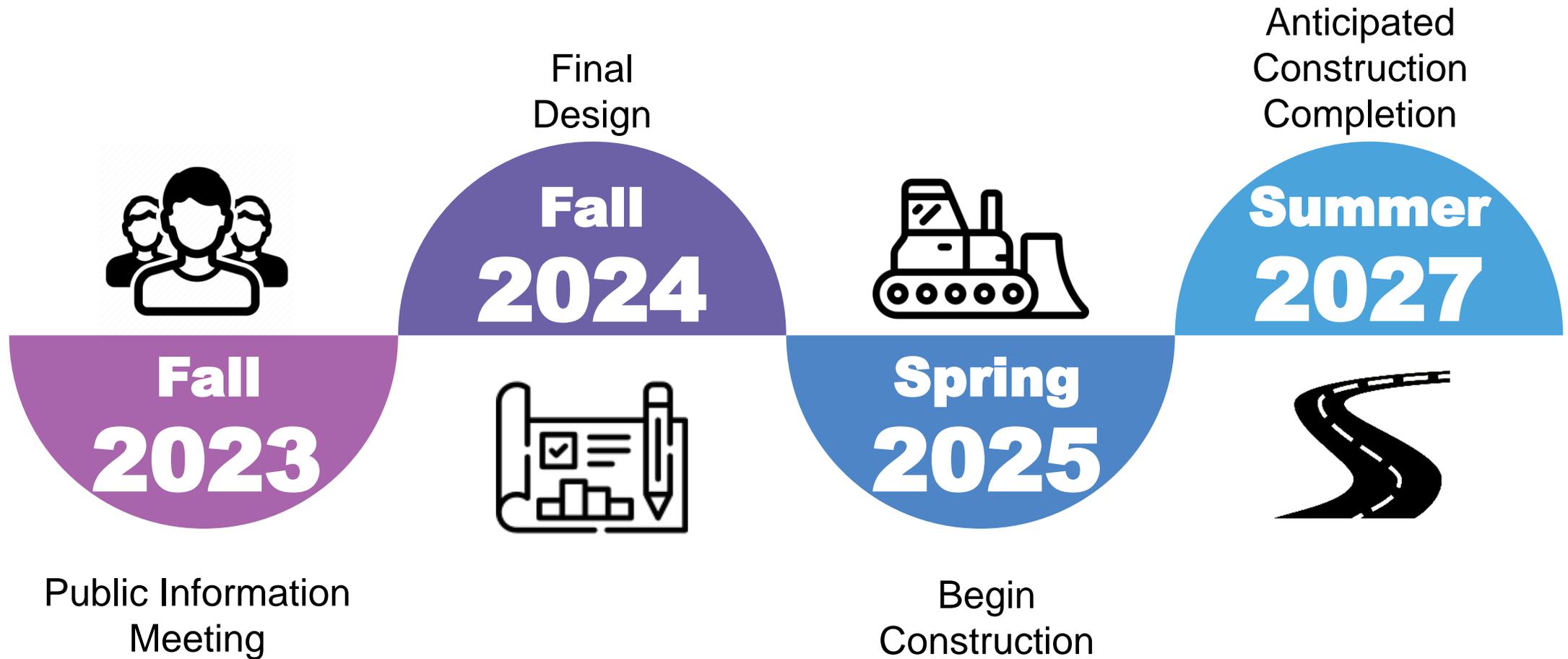
Field Meeting with Stake Holders:

- Home Depot
- Jarjura's
- Saint Anne Church
- Exxon Gas Station

Conceptual Public Information Meeting/CEPA Scoping Meeting

- Meeting held March 23, 2023

Next Steps



An aerial photograph of a highway interchange, featuring a multi-level overpass and several lanes of traffic. The image is overlaid with several semi-transparent geometric shapes: a large blue circle in the top left, a smaller blue circle in the top center, a large purple circle in the bottom left, and a large purple triangle on the right side. The background is a gradient of blue and purple.

Thank You